

District I  
1625 N French Dr., Hobbs, NM 88240

District II  
1301 W Grand Ave., Artesia, NM 88210

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-144  
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

**Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action:
- ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
  - ☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
  - ☐ Modification to an existing permit
  - ☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

**Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request**

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1  
Operator: **Burlington Resources Oil & Gas Company, LP** OGRID# **14538**  
Address: **P.O. Box 4289, Farmington, NM 87499**  
Facility or well name: **San Juan 27-5 Unit 142E**  
API Number: **30-039-30304** OCD Permit Number \_\_\_\_\_  
U/L or Qtr/Qtr: **F(SE/NW)** Section **33** Township **27N** Range: **5W** County: **Rio Arriba**  
Center of Proposed Design: Latitude: **36.32027** °N Longitude: **107.22042** °W NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2  
☒ **Pit:** Subsection F or G of 19 15 17 11 NMAC  
Temporary ☒ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A  
☒ Lined ☐ Unlined Liner type: Thickness **12** mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams ☒ Welded ☒ Factory ☐ Other \_\_\_\_\_ Volume **4400** bbl Dimensions L **65'** x W **45'** x D **10'**

3  
☐ **Closed-loop System:** Subsection H of 19 15 17 11 NMAC  
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other \_\_\_\_\_  
☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVD ☐ Other \_\_\_\_\_  
Liner Seams ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_

4  
☐ **Below-grade tank:** Subsection I of 19 15 17 11 NMAC  
Volume \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner Type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

5  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval



32

|   |  |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
|---|--|--|--|--|--|--|---|---|---|---|--|--|--|---|--|---|--|---|--|--|--|
| 6   | <p><b>Fencing:</b> Subsection D of 19 15 17 11 NMAC (<i>Applies to permanent pit, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input type="checkbox"/> Alternate Please specify _____</p>  |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| 7   | <p><b>Netting:</b> Subsection E of 19.15 17 11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Monthly inspections (<i>If netting or screening is not physically feasible</i>)</p>   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| 8   | <p><b>Signs:</b> Subsection C of 19 15 17 11 NMAC</p> <p><input type="checkbox"/> 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input checked="" type="checkbox"/> Signed in compliance with 19 15 3 103 NMAC</p>   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| 9   | <p><b>Administrative Approvals and Exceptions:</b></p> <p>Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance</p> <p><i>Please check a box if one or more of the following is requested, if not leave blank:</i></p> <p><input type="checkbox"/> Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval (<b>Fencing/BGT Liner</b>)</p> <p><input type="checkbox"/> Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval</p>  |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| 10  | <p><b>Siting Criteria (regarding permitting) 19.15.17.10 NMAC</b></p> <p><i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.</i></p> <table style="width: 100%;"> <tr> <td style="width: 80%;"> <p><b>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> </td> <td style="width: 20%; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</b></p> <p>- Topographic map, Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No<br/> <input type="checkbox"/> NA </td> </tr> <tr> <td> <p><b>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applied to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No<br/> <input type="checkbox"/> NA </td> </tr> <tr> <td> <p><b>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended</b></p> <p>- Written confirmation or verification from the municipality. Written approval obtained from the municipality</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within 500 feet of a wetland.</b></p> <p>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within the area overlying a subsurface mine.</b></p> <p>- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within an unstable area.</b></p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS, NM Geological Society, Topographic map</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td> <p><b>Within a 100-year floodplain</b></p> <p>- FEMA map</p> </td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table> | <p><b>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</b></p> <p>- Topographic map, Visual inspection (certification) of the proposed site</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA | <p><b>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applied to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA | <p><b>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended</b></p> <p>- Written confirmation or verification from the municipality. Written approval obtained from the municipality</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within 500 feet of a wetland.</b></p> <p>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within the area overlying a subsurface mine.</b></p> <p>- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within an unstable area.</b></p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS, NM Geological Society, Topographic map</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <p><b>Within a 100-year floodplain</b></p> <p>- FEMA map</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p><b>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</b></p> <p>- Topographic map, Visual inspection (certification) of the proposed site</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA  |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</b></p> <p>(<i>Applied to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p>   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA  |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</b></p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended</b></p> <p>- Written confirmation or verification from the municipality. Written approval obtained from the municipality</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within 500 feet of a wetland.</b></p> <p>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>   | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within the area overlying a subsurface mine.</b></p> <p>- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</p>   | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within an unstable area.</b></p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS, NM Geological Society, Topographic map</p>   | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |
| <p><b>Within a 100-year floodplain</b></p> <p>- FEMA map</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |   |  |  |  |

11

**Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist** Subsection B of 19 15 17 9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
- ☐ Previously Approved Design (attach copy of design) API \_\_\_\_\_ or Permit \_\_\_\_\_

12

**Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19 15.17 9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
- ☐ Previously Approved Design (attach copy of design) API \_\_\_\_\_
- ☐ Previously Approved Operating and Maintenance Plan API \_\_\_\_\_

13

**Permanent Pits Permit Application Checklist:** Subsection B of 19 15 17 9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17 9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC

14

**Proposed Closure:** 19 15 17 13 NMAC*Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.*

- Type ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System
- ☐ Alternative
- Proposed Closure Method ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (only for temporary pits and closed-loop systems)
- ☐ In-place Burial ☐ On-site Trench
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

**Waste Excavation and Removal Closure Plan Checklist** (19 15 17 13 NMAC) *Instructions: Each of the following items must be attached to the closure plan.**Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15.17 13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19 15 17 13 D NMAC)

*Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.*

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit # \_\_\_\_\_

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit # \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and

☐ Yes (If yes, please provide the information) ☐ No

*Required for impacted areas which will not be used for future service and operations*

☐ Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19 15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

**Siting Criteria (Regarding on-site closure methods only):** 19 15 17 10 NMAC

*Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 10 NMAC for guidance.*

Ground water is less than 50 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells

☐ Yes ☐ No

☐ N/A

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells

☐ Yes ☐ No

☐ N/A

Ground water is more than 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells

☐ Yes ☐ No

☐ N/A

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)

- Topographic map, Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application

- Visual inspection (certification) of the proposed site, Aerial photo, satellite image

☐ Yes ☐ No

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of the initial application

- NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended

- Written confirmation or verification from the municipality, Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland

- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area

- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map

☐ Yes ☐ No

Within a 100-year floodplain

- FEMA map

☐ Yes ☐ No

**On-Site Closure Plan Checklist:** (19 15 17 13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

19

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief

Name (Print) \_\_\_\_\_ Title \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 e-mail address \_\_\_\_\_ Telephone \_\_\_\_\_

20

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)**OCD Representative Signature:** Frank D. Kelly **Approval Date:** 9/14/2011**Title:** Compliance Officer **OCD Permit Number:** \_\_\_\_\_

21

**Closure Report (required within 60 days of closure completion):** Subsection K of 19 15 17 13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ **Closure Completion Date:** 7-8-2008

22

**Closure Method:**

☐ Waste Excavation and Removal ☒ On-site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain \_\_\_\_\_

23

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No*Required for impacted areas which will not be used for future service and operations*☐ Site Reclamation (Photo Documentation)☐ Soil Backfilling and Cover Installation☐ Re-vegetation Application Rates and Seeding Technique

24

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

☒ Proof of Closure Notice (surface owner and division)☒ Proof of Deed Notice (required for on-site closure)☒ Plot Plan (for on-site closures and temporary pits)☒ Confirmation Sampling Analytical Results (if applicable)☐ Waste Material Sampling Analytical Results (if applicable)☐ Disposal Facility Name and Permit Number☒ Soil Backfilling and Cover Installation☒ Re-vegetation Application Rates and Seeding Technique☒ Site Reclamation (Photo Documentation)On-site Closure Location Latitude 36.53393 °N Longitude 107.368057 °W NAD ☐ 1927 ☒ 1983

25

**Operator Closure Certification:**

*I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.*

Name (Print) Ethel Tally Title Staff Regulatory TechnicianSignature Ethel Tally Date 2-25-10e-mail address ethel.tally@conocophillips.com Telephone 505-599-4027

**Burlington Resources Oil Gas Company, LP  
San Juan Basin  
Closure Report**

**Lease Name: San Juan 27-5 Unit 142E  
API No.: 30-039-30304**

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the temporary pit referenced above. All proper documentation regarding closure activities is being included with the C-144. The temporary pit for this location was constructed and location drilled before June 16, 2008 (effective date for Rule 19.15.17). While closure of the temporary pit did fall within the rule some dates for submittals are after the rig release date.

- Details on Capping and Covering, where applicable. **(See report)**
- Plot Plan (Pit Diagram) **(Included as an attachment)**
- Inspection Reports **(Included as an attachment)**
- Sampling Results **(Included as an attachment)**
- C-105 **(Included as an attachment)**
- Copy of Deed Notice will be filed with County Clerk **(Not required on Federal, State, or Tribal land as stated by FAQ dated October 30, 2008)**

**General Plan:**

1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.

**All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B).**

2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.

**The pit was closed using onsite burial.**

3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.

**The closure process notification to the landowner was sent via certified mail. (See Attached)(Well located on Private Land, certified mail is not required for Federal Land per BLM/OCD MOU.)**

4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.

**Provision 4 of the closure plan requirements were not met due to rig move off date as noted on C-105 which was prior to pit rule change. Burlington will ensure compliance with this rule in the future.**

5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

**Notification is attached.**

6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.

**Liner of temporary pit was removed above "mud level" after stabilization. Removal of the liner consisted of manually cutting liner at mud level and removing all remaining liner. Care was taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner was disposed of at a licensed disposal facility, (San Juan County Landfill).**

7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.

**Burlington mixed the Pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of approximately 3 parts clean soil to 1 part pit contents.**

8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

**A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). (Sample results attached).**

| Components | Tests Method              | Limit (mg/Kg) | Results    |
|------------|---------------------------|---------------|------------|
| Benzene    | EPA SW-846 8021B or 8260B | 0.2           | 6.5 ug/kg  |
| BTEX       | EPA SW-846 8021B or 8260B | 50            | 36.6 ug/kG |
| TPH        | EPA SW-846 418.1          | 2500          | 475mg/kg   |
| GRO/DRO    | EPA SW-846 8015M          | 500           | 40.5 mg/Kg |
| Chlorides  | EPA 300.1                 | 1000/500      | 278 mg/L   |

9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.

**The pit material passed solidification and testing standards. The pit area was then backfilled with compacted, non-waste containing, earthen material. More than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.**

10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.

**The integrity of the liner was not damaged in the pit closure process.**

11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011

**Dig and Haul was not required.**

12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

**The pit area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping included drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final re-contour has a uniform appearance with smooth surface, fitting the natural landscape.**

13. Notification will be sent to OCD when the reclaimed area is seeded.

**Provision 13 was accomplished on 07/21/2008 with the following seeding regiment:**

| Type                     | Variety or Cultivator | PLS/A |
|--------------------------|-----------------------|-------|
| Western wheatgrass       | Arriba                | 3.0   |
| Indian ricegrass         | Paloma or Rimrock     | 3.0   |
| Slender wheatgrass       | San Luis              | 2.0   |
| Crested wheatgrass       | Hy-crest              | 3.0   |
| Bottlebrush Squirreltail | Unknown               | 2 0   |
| Four-wing Saltbrush      | Delar                 | .25   |

14. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

**Provision 14 was accomplished on 07/21/2008 with the above seeding regiment. Seeing was accomplished via drilling on the contour whenever practical or by other division-approved methods. The OCD will be notified once two successive growing seasons have been accomplished by submitting a C-103.**

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

**Provision 15 was accomplished by installing a steel marker in the temporary pit, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker is flush with the ground to allow access of the active well pad and for safety concerns. The top of the marker contains a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate contains the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.**

**The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the following operator's information at the time of all wells on the pad are abandoned. The riser will be labeled: BR, BLM, San Juan 27-5 Unit 142E, UL-F, Sec. 33, T 27N, R 5W, API # 30-039-30304**





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Mary Kay Cornwall  
Staff Associate  
Property Tax, Real Estate, ROW & Claims

ConocoPhillips Company  
PO Box 4289  
Farmington, NM 87499-1429  
(505) 324-6106  
(505) 324-6136

September 25, 2008

**VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

7192-3496-0010-0027-3091

Nick Candelaria  
511 East Broadway  
Farmington, NM 87401

Re: San Juan 27-5 Unit 142E  
SENW Section 33, T27N, R5W  
Rio Arriba County, New Mexico

Dear Landowner:

Pursuant to Paragraph 1 (b) of Subsection F of 19.15.17.13 NMAC, an operator shall provide the surface owner notification of the operator's proposal to close a temporary pit on-site in compliance with the on-site closure methods specified in the same Subsection of the NMAC. In compliance of this requirement, please consider this notification of ConocoPhillips' intent to close the temporary pit on the above referenced location.

If you have any questions, please contact Mark Stallsmith @ (505)324-6172.

Sincerely,

*Mary Kay Cornwall*

Mary Kay Cornwall  
Staff Associate, PTRRC

STATE OF NEW MEXICO     §  
  §  
COUNTY OF RIO ARRIBA   §

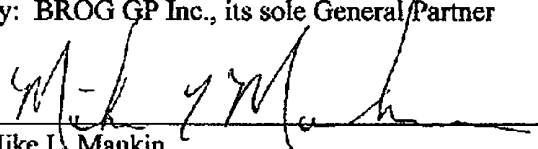
**RECORDATION NOTICE OF PIT BURIAL**

In accordance with Section 19.15.17.13.F.1.f of the NMAC, operator hereby provides notice in the public record of an on-site burial of a temporary pit at the following location:

|                           |                         |
|---------------------------|-------------------------|
| Well Name:                | San Juan 27-5 Unit 142E |
| Latitude (DDD° MM.MMM'):  | 36° 32.02.7'N           |
| Longitude (DDD° MM.MMM'): | 107° 22.04.2'W          |
| Unit Letter(1/4, 1/4):    | F                       |
| Section:                  | 33                      |
| Township:                 | 27N                     |
| Range:                    | 5W                      |
| County:                   | Rio Arriba              |
| State:                    | NM                      |

IN WITNESS WHEREOF, this Recordation Notice of Pit Burial has been executed on the date indicated below by the undersigned.

**BURLINGTON RESOURCES OIL & GAS COMPANY LP,**  
By: BROG GP Inc., its sole General Partner

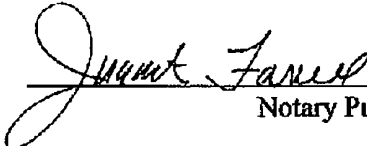
  
Mike L. Mankin,  
Supervisor, PTRRC

RIO ARRIBA COUNTY CLERK  
MOISES A MORALES JR  
200901765  
Book 532 Page 1765  
1 of 1  
03/25/2009 10:03:16 AM  
BY ERMA

STATE OF NEW MEXICO     §  
  §  
COUNTY OF SAN JUAN     §

This instrument was acknowledged before me this 9th day of March, 2009, by Michael L. Mankin, of Burlington Resources Oil & Gas Company LP, By: BROG GP Inc., its sole General Partner, on behalf of said corporation.

My Commission Expires: 1/13/2010

  
Notary Public

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
Rio Brazos Rd., Artec, N.M. 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                |   |            |                      |
|----------------|---|------------|----------------------|
| *API Number    |   | *Pool Code | *Pool Name           |
| *Property Code | *Property Name<br>SAN JUAN 27-5 UNIT                          |            | *Well Number<br>142E |
| *OGRD No.      | *Operator Name<br>BURLINGTON RESOURCES OIL AND GAS COMPANY LP |            | *Elevation<br>6514'  |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| F             | 33      | 27-N     | 5-W   |         | 1505'         | NORTH            | 1505'         | WEST           | RIO ARriba |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no.    | Section | Township | Range | Lot Idn | Feet from the    | North/South line | Feet from the       | East/West line | County     |
|------------------|---------|----------|-------|---------|------------------|------------------|---------------------|----------------|------------|
| *Dedicated Acres |         |          |       |         | *Joint or Infill |                  | *Consolidation Code |                | *Order No. |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|                             |  |  |  |
|-----------------------------|--|--|--|
| S 89° 27' 27" E<br>2654.81' |  | LAT: 36°32.0437' N.<br>LONG: 107°22.0345' W.<br>NAD 1927 |  |
| S 0° 22' 55" E<br>2877.19'  |  | LAT: 36°32'02.7" N.<br>LONG: 107°22'04.2" W.<br>NAD 1983 |  |
| 1505'                       |  | 1505'  |  |
| 1505'                       |  | 1505'  |  |
| USA SF-079394               |  | 33   |  |

<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Printed Name

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

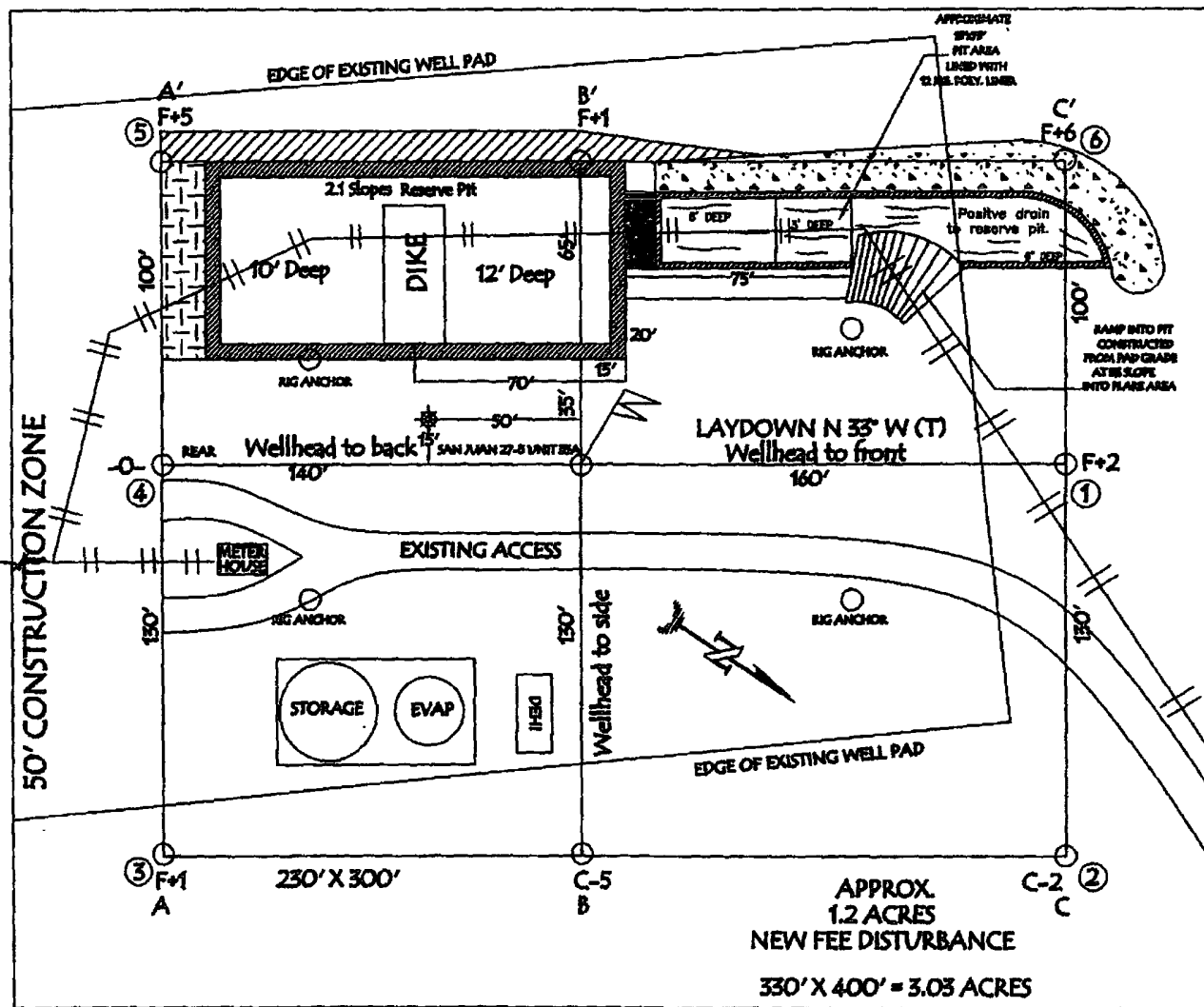
Signature of Licensed Professional Surveyor:

Certificate Number

15703

**BURLINGTON RESOURCE OIL & GAS COMPANY LP**  
**SAN JUAN 27-5 UNIT #142E, 1505' FNL & 1505' FWL**  
**SECTION 33, T-27-N, R-5-W, NMPM, RIO ARriba COUNTY, NM**  
**GROUND ELEVATION: 6514', DATE: MAY 1, 2006**

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LATITUDE: 36° 32.0437' N LONGITUDE: 107° 22.0345' W NAD27

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

Client: ConocoPhillips  
Sample ID: SJ 27-5 #142E  
Laboratory Number: 46438  
Chain of Custody No: 4404  
Sample Matrix: Soil  
Preservative:  
Condition: Intact

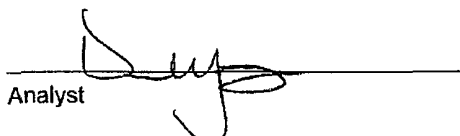
Project #: 96052-0026  
Date Reported: 07-28-08  
Date Sampled: 07-18-08  
Date Received: 07-18-08  
Date Extracted: 07-23-08  
Date Analyzed: 07-24-08  
Analysis Requested: 8015 TPH

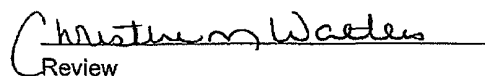
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 3.8                      | 0.2                      |
| Diesel Range (C10 - C28)     | 36.7                     | 0.1                      |
| Total Petroleum Hydrocarbons | 40.5                     | 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: **Drilling Pit Sample**

  
Analyst

  
Review

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

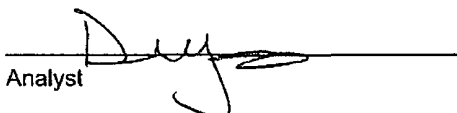
|                      |                          |                     |            |
|----------------------|--------------------------|---------------------|------------|
| Client:              | ConocoPhillips           | Project #:          | 96052-0026 |
| Sample ID:           | SJ 27-5 #142E Background | Date Reported:      | 07-28-08   |
| Laboratory Number:   | 46439                    | Date Sampled:       | 07-18-08   |
| Chain of Custody No: | 4404                     | Date Received:      | 07-18-08   |
| Sample Matrix:       | Soil                     | Date Extracted:     | 07-23-08   |
| Preservative:        |                          | Date Analyzed:      | 07-24-08   |
| Condition:           | Intact                   | Analysis Requested: | 8015 TPH   |

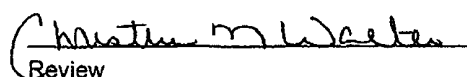
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 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: **Drilling Pit Sample**

Analyst 

Review 

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 07-24-08 QA/QC     | Date Reported:      | 07-28-08 |
| Laboratory Number: | 46436              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 07-24-08 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | O-Cal RF    | % Difference | Accept Range |
|-------------------------|------------|-------------|-------------|--------------|--------------|
| Gasoline Range C5 - C10 | 05-07-07   | 9.9634E+002 | 9.9674E+002 | 0.04%        | 0 - 15%      |
| Diesel Range C10 - C28  | 05-07-07   | 9.8291E+002 | 9.8330E+002 | 0.04%        | 0 - 15%      |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

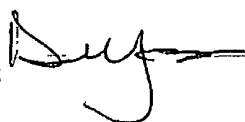
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept Range |
|-------------------------|--------|-----------|--------------|--------------|
| Gasoline Range C5 - C10 | 0.9    | 1.1       | 22.2%        | 0 - 30%      |
| Diesel Range C10 - C28  | 55.2   | 54.9      | 0.5%         | 0 - 30%      |

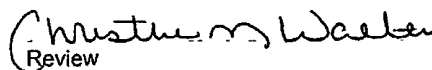
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept Range |
|-------------------------|--------|-------------|--------------|------------|--------------|
| Gasoline Range C5 - C10 | 0.9    | 250         | 247          | 98.4%      | 75 - 125%    |
| Diesel Range C10 - C28  | 55.2   | 250         | 303          | 99.3%      | 75 - 125%    |

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: QA/QC for Samples 46436 - 46439 and 46451 - 46454.

Analyst 

Review 

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |                |                     |            |
|--------------------|----------------|---------------------|------------|
| Client:            | ConocoPhillips | Project #:          | 96052-0026 |
| Sample ID:         | SJ 27-5 #142E  | Date Reported:      | 07-28-08   |
| Laboratory Number: | 46438          | Date Sampled:       | 07-18-08   |
| Chain of Custody:  | 4404           | Date Received:      | 07-18-08   |
| Sample Matrix:     | Soil           | Date Analyzed:      | 07-24-08   |
| Preservative:      |                | Date Extracted:     | 07-23-08   |
| Condition:         | Intact         | Analysis Requested: | BTEX       |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 6.5                      | 0.9                      |
| Toluene      | 18.4                     | 1.0                      |
| Ethylbenzene | 1.2                      | 1.0                      |
| p,m-Xylene   | 8.0                      | 1.2                      |
| o-Xylene     | 2.5                      | 0.9                      |
| Total BTEX   | 36.6                     |                          |

ND - Parameter not detected at the stated detection limit.

|                       |                     |                  |
|-----------------------|---------------------|------------------|
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

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: Drilling Pit Sample

Analyst

Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                          |                     |            |
|--------------------|--------------------------|---------------------|------------|
| Client:            | ConocoPhillips           | Project #:          | 96052-0026 |
| Sample ID:         | SJ 27-5 #142E Background | Date Reported:      | 07-28-08   |
| Laboratory Number: | 46439                    | Date Sampled:       | 07-18-08   |
| Chain of Custody:  | 4404                     | Date Received:      | 07-18-08   |
| Sample Matrix:     | Soil                     | Date Analyzed:      | 07-24-08   |
| Preservative:      |                          | Date Extracted:     | 07-23-08   |
| Condition:         | Intact                   | Analysis Requested: | BTEX       |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 0.9                      |
| Toluene      | ND                       | 1.0                      |
| Ethylbenzene | ND                       | 1.0                      |
| p,m-Xylene   | ND                       | 1.2                      |
| o-Xylene     | ND                       | 0.9                      |
| Total BTEX   | ND                       |                          |

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: Drilling Pit Sample

Analyst

Review

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                |                |          |
|--------------------|----------------|----------------|----------|
| Client:            | N/A            | Project #:     | N/A      |
| Sample ID:         | 07-24-BT QA/QC | Date Reported: | 07-28-08 |
| Laboratory Number: | 46436          | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil           | Date Received: | N/A      |
| Preservative:      | N/A            | Date Analyzed: | 07-24-08 |
| Condition:         | N/A            | Analysis:      | BTEX     |

| Calibration and<br>Detection Limits (ug/L) | I-Cal RF    | C-Cal RF     | %Diff   | Blank<br>Conc | Detect<br>Limit |
|--|-------------|--------------|---------|---------------|-----------------|
|  |             | Accept Range | 0 - 15% |               |                 |
| Benzene                                    | 9.8284E+007 | 9.8481E+007  | 0.2%    | ND            | 0.1             |
| Toluene                                    | 7.6340E+007 | 7.6493E+007  | 0.2%    | ND            | 0.1             |
| Ethylbenzene                               | 5.9620E+007 | 5.9739E+007  | 0.2%    | ND            | 0.1             |
| p,m-Xylene                                 | 1.1940E+008 | 1.1964E+008  | 0.2%    | ND            | 0.1             |
| o-Xylene                                   | 5.6154E+007 | 5.6267E+007  | 0.2%    | ND            | 0.1             |


| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff | Accept Range | Detect Limit |
|-------------------------|--------|-----------|-------|--------------|--------------|
| Benzene                 | 5.7    | 5.6       | 1.8%  | 0 - 30%      | 0.9          |
| Toluene                 | 23.3   | 22.9      | 1.7%  | 0 - 30%      | 1.0          |
| Ethylbenzene            | 5.5    | 5.1       | 7.3%  | 0 - 30%      | 1.0          |
| p,m-Xylene              | 47.1   | 46.0      | 2.3%  | 0 - 30%      | 1.2          |
| o-Xylene                | 15.3   | 15.0      | 2.0%  | 0 - 30%      | 0.9          |


| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 5.7    | 50.0          | 55.3          | 99.3%      | 39 - 150     |
| Toluene             | 23.3   | 50.0          | 71.3          | 97.3%      | 46 - 148     |
| Ethylbenzene        | 5.5    | 50.0          | 52.5          | 94.6%      | 32 - 160     |
| p,m-Xylene          | 47.1   | 100           | 141           | 95.9%      | 46 - 148     |
| o-Xylene            | 15.3   | 50.0          | 60.3          | 92.3%      | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References. Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QA/QC for Samples 46436 - 46439 and 46449 - 46454.

Analyst 

Review   
Christina M. Walter

|                    |                |                  |              |
|--------------------|----------------|------------------|--------------|
| Client:            | ConocoPhillips | Project #:       | 96052-0026   |
| Sample ID:         | SJ 27-5 #142E  | Date Reported:   | 07-24-08     |
| Laboratory Number: | 46438          | Date Sampled:    | 07-18-08     |
| Chain of Custody:  | 4404           | Date Received:   | 07-18-08     |
| Sample Matrix:     | Soil           | Date Analyzed:   | 07-22-08     |
| Preservative:      |                | Date Digested:   | 07-21-08     |
| Condition:         | Intact         | Analysis Needed: | Total Metals |

| Parameter | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) | TCLP Regulatory<br>Level<br>(mg/Kg) |
|-----------|--------------------------|--------------------------|-------------------------------------|
| Arsenic   | ND                       | 0.001                    | 5.0                                 |
| Barium    | 24.9                     | 0.001                    | 100                                 |
| Cadmium   | 0.004                    | 0.001                    | 1.0                                 |
| Chromium  | 0.238                    | 0.001                    | 5.0                                 |
| Lead      | 0.221                    | 0.001                    | 5.0                                 |
| Mercury   | ND                       | 0.001                    | 0.2                                 |
| Selenium  | ND                       | 0.001                    | 1.0                                 |
| Silver    | ND                       | 0.001                    | 5.0                                 |

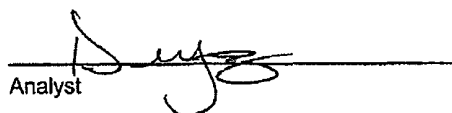
ND - Parameter not detected at the stated detection limit.

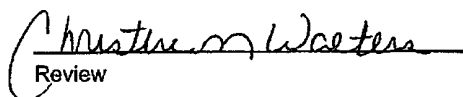
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.  
SW-846, USEPA, December 1996.

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: **Drilling Pit Sample.**

  
Analyst

  
Review

## TRACE METAL ANALYSIS

|                    |                          |                  |              |
|--------------------|--------------------------|------------------|--------------|
| Client:            | ConocoPhillips           | Project #:       | 96052-0026   |
| Sample ID:         | SJ 27-5 #142E Background | Date Reported:   | 07-24-08     |
| Laboratory Number: | 46439                    | Date Sampled:    | 07-18-08     |
| Chain of Custody:  | 4404                     | Date Received:   | 07-18-08     |
| Sample Matrix:     | Soil                     | Date Analyzed:   | 07-22-08     |
| Preservative:      |                          | Date Digested:   | 07-21-08     |
| Condition:         | Intact                   | Analysis Needed: | Total Metals |

| Parameter | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) | TCLP Regulatory<br>Level<br>(mg/Kg) |
|-----------|--------------------------|--------------------------|-------------------------------------|
| Arsenic   | ND                       | 0.001                    | 5.0                                 |
| Barium    | 8.2                      | 0.001                    | 100                                 |
| Cadmium   | 0.007                    | 0.001                    | 1.0                                 |
| Chromium  | 0.161                    | 0.001                    | 5.0                                 |
| Lead      | 0.392                    | 0.001                    | 5.0                                 |
| Mercury   | ND                       | 0.001                    | 0.2                                 |
| Selenium  | ND                       | 0.001                    | 1.0                                 |
| Silver    | ND                       | 0.001                    | 5.0                                 |

ND - Parameter not detected at the stated detection limit.

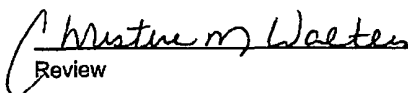
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.  
SW-846, USEPA, December 1996.

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: **Drilling Pit Sample.**

Analyst 

Review 

## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

|                     |                   |                |          |
|---------------------|-------------------|----------------|----------|
| Client:             | QA/QC             | Project #:     | QA/QC    |
| Sample ID:          | 07-22 TM QA/QC    | Date Reported: | 07-24-08 |
| Laboratory Number:  | 46419             | Date Sampled:  | N/A      |
| Sample Matrix:      | Soil              | Date Received: | N/A      |
| Analysis Requested: | Total RCRA Metals | Date Analyzed: | 07-22-08 |
| Condition:          | N/A               | Date Digested: | 07-18-08 |

| Blank & Duplicate<br>Conc. (mg/Kg) | Instrument<br>Blank (mg/Kg) | Method<br>Blank | Detection<br>Limit | Sample | Duplicate | %<br>Diff | Acceptance<br>Range |
|------------------------------------|-----------------------------|-----------------|--------------------|--------|-----------|-----------|---------------------|
| Arsenic                            | ND                          | ND              | 0.001              | ND     | ND        | 0.0%      | 0% - 30%            |
| Barium                             | ND                          | ND              | 0.001              | 11.6   | 11.6      | 0.0%      | 0% - 30%            |
| Cadmium                            | ND                          | ND              | 0.001              | 0.006  | 0.006     | 0.0%      | 0% - 30%            |
| Chromium                           | ND                          | ND              | 0.001              | 0.288  | 0.302     | 4.6%      | 0% - 30%            |
| Lead                               | ND                          | ND              | 0.001              | 0.341  | 0.343     | 0.6%      | 0% - 30%            |
| Mercury                            | ND                          | ND              | 0.001              | ND     | ND        | 0.0%      | 0% - 30%            |
| Selenium                           | ND                          | ND              | 0.001              | ND     | ND        | 0.0%      | 0% - 30%            |
| Silver                             | ND                          | ND              | 0.001              | ND     | ND        | 0.0%      | 0% - 30%            |

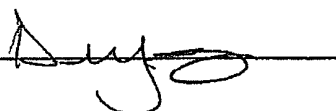
| Spike<br>Conc. (mg/Kg) | Spike<br>Added | Sample | Spiked<br>Sample | Percent<br>Recovery | Acceptance<br>Range |
|------------------------|----------------|--------|------------------|---------------------|---------------------|
| Arsenic                | 0.250          | ND     | 0.249            | 99.6%               | 80% - 120%          |
| Barium                 | 0.500          | 11.6   | 12.2             | 101%                | 80% - 120%          |
| Cadmium                | 0.250          | 0.006  | 0.259            | 101%                | 80% - 120%          |
| Chromium               | 0.500          | 0.288  | 0.791            | 100.3%              | 80% - 120%          |
| Lead                   | 0.500          | 0.341  | 0.846            | 101%                | 80% - 120%          |
| Mercury                | 0.100          | ND     | 0.098            | 98.2%               | 80% - 120%          |
| Selenium               | 0.100          | ND     | 0.099            | 99.0%               | 80% - 120%          |
| Silver                 | 0.100          | ND     | 0.090            | 90.4%               | 80% - 120%          |

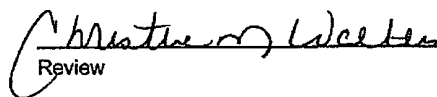
ND - Parameter not detected at the stated detection limit.

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.

Comments: QA/QC for Sample 46419 - 46421, 46427, 46428 and 46436 - 46439.

Analyst 

Review 

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## CATION / ANION ANALYSIS

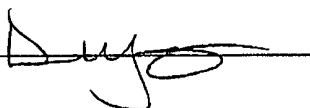
|                    |                |                 |            |
|--------------------|----------------|-----------------|------------|
| Client:            | ConocoPhillips | Project #:      | 96052-0026 |
| Sample ID:         | SJ 27-5 #142E  | Date Reported:  | 07-24-08   |
| Laboratory Number: | 46438          | Date Sampled:   | 07-18-08   |
| Chain of Custody:  | 4404           | Date Received:  | 07-18-08   |
| Sample Matrix:     | Soil Extract   | Date Extracted: | 07-21-08   |
| Preservative:      |                | Date Analyzed:  | 07-22-08   |
| Condition:         | Intact         |                 |            |

| Parameter                     | Analytical Result | Units    |       |       |
|-------------------------------|-------------------|----------|-------|-------|
| pH                            | 8.22              | s.u.     |       |       |
| Conductivity @ 25° C          | 1,450             | umhos/cm |       |       |
| Total Dissolved Solids @ 180C | 916               | mg/L     |       |       |
| Total Dissolved Solids (Calc) | 954               | mg/L     |       |       |
| SAR                           | 19.6              | ratio    |       |       |
| Total Alkalinity as CaCO3     | 98.0              | mg/L     |       |       |
| Total Hardness as CaCO3       | 50.7              | mg/L     |       |       |
| Bicarbonate as HCO3           | 98.0              | mg/L     | 1.61  | meq/L |
| Carbonate as CO3              | <0.1              | mg/L     | 0.00  | meq/L |
| Hydroxide as OH               | <0.1              | mg/L     | 0.00  | meq/L |
| Nitrate Nitrogen              | 0.230             | mg/L     | 0.00  | meq/L |
| Nitrite Nitrogen              | <0.01             | mg/L     | 0.00  | meq/L |
| Chloride                      | 278               | mg/L     | 7.84  | meq/L |
| Fluoride                      | 8.19              | mg/L     | 0.43  | meq/L |
| Phosphate                     | <0.1              | mg/L     | 0.00  | meq/L |
| Sulfate                       | 258               | mg/L     | 5.37  | meq/L |
| Iron                          | 0.315             | mg/L     | 0.01  | meq/L |
| Calcium                       | 16.2              | mg/L     | 0.81  | meq/L |
| Magnesium                     | 2.49              | mg/L     | 0.20  | meq/L |
| Potassium                     | 10.3              | mg/L     | 0.26  | meq/L |
| Sodium                        | 321               | mg/L     | 13.96 | meq/L |
| Cations                       |                   |          | 15.25 | meq/L |
| Anions                        |                   |          | 15.25 | meq/L |
| Cation/Anion Difference       |                   |          | 0.03% |       |

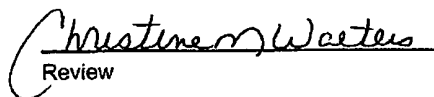
Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit Sample.**

Analyst



Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## CATION / ANION ANALYSIS

|                    |                          |                 |            |
|--------------------|--------------------------|-----------------|------------|
| Client:            | ConocoPhillips           | Project #:      | 96052-0026 |
| Sample ID:         | SJ 27-5 #142E Background | Date Reported:  | 07-24-08   |
| Laboratory Number: | 46439                    | Date Sampled:   | 07-18-08   |
| Chain of Custody:  | 4404                     | Date Received:  | 07-18-08   |
| Sample Matrix:     | Soil Extract             | Date Extracted: | 07-21-08   |
| Preservative:      |                          | Date Analyzed:  | 07-22-08   |
| Condition:         | Intact                   |                 |            |

| Parameter                     | Analytical Result | Units    |
|-------------------------------|-------------------|----------|
| pH                            | 8.91              | s.u.     |
| Conductivity @ 25° C          | 1,130             | umhos/cm |
| Total Dissolved Solids @ 180C | 660               | mg/L     |
| Total Dissolved Solids (Calc) | 554               | mg/L     |
| SAR                           | 28.6              | ratio    |
| Total Alkalinity as CaCO3     | 128               | mg/L     |
| Total Hardness as CaCO3       | 8.6               | mg/L     |


|                     |       |      |      |       |
|---------------------|-------|------|------|-------|
| Bicarbonate as HCO3 | 102   | mg/L | 1.67 | meq/L |
| Carbonate as CO3    | 26.0  | mg/L | 0.87 | meq/L |
| Hydroxide as OH     | <0.1  | mg/L | 0.00 | meq/L |
| Nitrate Nitrogen    | 1.19  | mg/L | 0.02 | meq/L |
| Nitrite Nitrogen    | <0.01 | mg/L | 0.00 | meq/L |
| Chloride            | 28.2  | mg/L | 0.80 | meq/L |
| Fluoride            | 1.16  | mg/L | 0.06 | meq/L |
| Phosphate           | <0.1  | mg/L | 0.00 | meq/L |
| Sulfate             | 249   | mg/L | 5.18 | meq/L |
| Iron                | 0.302 | mg/L | 0.01 | meq/L |
| Calcium             | 2.58  | mg/L | 0.13 | meq/L |
| Magnesium           | 0.534 | mg/L | 0.04 | meq/L |
| Potassium           | 0.664 | mg/L | 0.02 | meq/L |
| Sodium              | 193   | mg/L | 8.40 | meq/L |

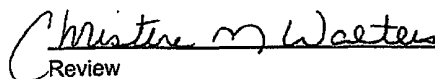
|         |      |       |
|---------|------|-------|
| Cations | 8.60 | meq/L |
| Anions  | 8.60 | meq/L |

Cation/Anion Difference 0.03%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pit Sample.

  
Analyst

  
Review

|                      |                |                  |            |
|----------------------|----------------|------------------|------------|
| Client:              | ConocoPhillips | Project #:       | 96052-0026 |
| Sample ID:           | SJ 27-5 #142E  | Date Reported:   | 07-28-08   |
| Laboratory Number:   | 46438          | Date Sampled:    | 07-18-08   |
| Chain of Custody No: | 4404           | Date Received:   | 07-18-08   |
| Sample Matrix:       | Soil           | Date Extracted:  | 07-25-08   |
| Preservative:        |                | Date Analyzed:   | 07-25-08   |
| Condition:           | Intact         | Analysis Needed: | TPH-418.1  |

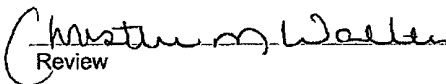
| Parameter                    | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 475                      | 5.0                      |

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: Drilling Pit Sample.

Analyst 

Review 



|                      |                          |                  |            |
|----------------------|--------------------------|------------------|------------|
| Client:              | ConocoPhillips           | Project #:       | 98052-0026 |
| Sample ID:           | SJ 27-5 #142E Background | Date Reported:   | 07-28-08   |
| Laboratory Number:   | 46439                    | Date Sampled:    | 07-18-08   |
| Chain of Custody No: | 4404                     | Date Received:   | 07-18-08   |
| Sample Matrix:       | Soil                     | Date Extracted:  | 07-25-08   |
| Preservative:        |                          | Date Analyzed:   | 07-25-08   |
| Condition:           | Intact                   | Analysis Needed: | TPH-418.1  |

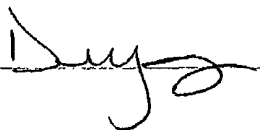
| Parameter                    | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 1,270                    | 5.0                      |

ND = Parameter not detected at the stated detection limit.

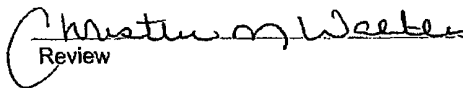
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Drilling Pit Sample.

Analyst



Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

|                    |                       |                  |          |
|--------------------|-----------------------|------------------|----------|
| Client:            | QA/QC                 | Project #:       | N/A      |
| Sample ID:         | QA/QC                 | Date Reported:   | 07-28-08 |
| Laboratory Number: | 07-25-TPH.QA/QC 46436 | Date Sampled:    | N/A      |
| Sample Matrix:     | Freon-113             | Date Analyzed:   | 07-25-08 |
| Preservative:      | N/A                   | Date Extracted:  | 07-25-08 |
| Condition:         | N/A                   | Analysis Needed: | TPH      |

|             |            |            |           |           |              |               |
|-------------|------------|------------|-----------|-----------|--------------|---------------|
| Calibration | I-Cal Date | C-Cal Date | I-Cal RF: | C-Cal RF: | % Difference | Accept. Range |
|             | 07-02-08   | 07-25-08   | 1,440     | 1,330     | 7.6%         | +/- 10%       |

|                     |               |                 |
|---------------------|---------------|-----------------|
| Blank Conc. (mg/Kg) | Concentration | Detection Limit |
| TPH                 | ND            | 11.5            |

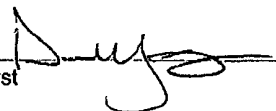
|                         |        |           |              |               |
|-------------------------|--------|-----------|--------------|---------------|
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
| TPH                     | 256    | 245       | 4.5%         | +/- 30%       |

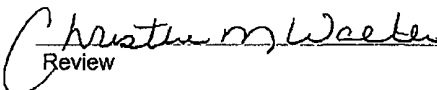
|                     |        |             |              |            |              |
|---------------------|--------|-------------|--------------|------------|--------------|
| Spike Conc. (mg/Kg) | Sample | Spike Added | Spike Result | % Recovery | Accept Range |
| TPH                 | 256    | 2,000       | 2,450        | 109%       | 80 - 120%    |

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: QA/QC for Samples 46436 - 46439 and 46451 - 46456.

Analyst 

Review 

|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|--|---|---|--------------------------|---------------------------------------|--|-------------------------------------|---|----------------------|----------|---------------|
| Submit To Appropriate District Office<br>Two Copies<br><u>District I</u><br>1625 N French Dr., Hobbs, NM 88240<br><u>District II</u><br>1301 W Grand Avenue, Artesia, NM 88210<br><u>District III</u><br>1000 Rio Brazos Rd., Aztec, NM 87410<br><u>District IV</u><br>1220 S St Francis Dr., Santa Fe, NM 87505   | <b>State of New Mexico</b><br><b>Energy, Minerals and Natural Resources</b><br><br><b>Oil Conservation Division</b><br><b>1220 South St. Francis Dr.</b><br><b>Santa Fe, NM 87505</b> | <b>Form C-105</b><br>July 17, 2008<br><br>1. WELL API NO.<br>30-039-30304<br><br>2. Type of Lease<br><input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN<br><br>3. State Oil & Gas Lease No<br>SF-079394 |                          |                                       |  |                                     |   |                      |          |               |
| <b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 4. Reason for filing<br><br><input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)<br><br><input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15 17 13 K NMAC) |   | 5. Lease Name or Unit Agreement Name<br>San Juan 27-5<br><br>6. Well Number<br>142E   |                          |                                       |  |                                     |   |                      |          |               |
| 7. Type of Completion<br><input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 8. Name of Operator<br>Burlington Resources Oil Gas Company, LP  |   | 9. OGRID<br>14538   |                          |                                       |  |                                     |   |                      |          |               |
| 10. Address of Operator  |   | 11. Pool name or Wildcat  |                          |                                       |  |                                     |   |                      |          |               |
| 12. Location   | Unit Ltr  | Section   | Township                 | Range                                 | Lot  | Feet from the                       | N/S Line                                  | Feet from the        | E/W Line | County        |
| Surface:   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| BH:  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 13. Date Spudded   | 14. Date T D Reached  | 15. Date Rig Released<br>5/28/2008  |                          | 16. Date Completed (Ready to Produce) |  |                                     | 17. Elevations (DF and RKB, RT, GR, etc ) |                      |          |               |
| 18. Total Measured Depth of Well   |   | 19. Plug Back Measured Depth  |                          | 20. Was Directional Survey Made?      |  |                                     | 21. Type Electric and Other Logs Run      |                      |          |               |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| <b>23. CASING RECORD (Report all strings set in well)</b>  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| CASING SIZE  |   | WEIGHT LB /FT   |                          | DEPTH SET                             |  | HOLE SIZE                           |   | CEMENTING RECORD     |          | AMOUNT PULLED |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 24. LINER RECORD   |   |   |                          |                                       |  | 25. TUBING RECORD                   |   |                      |          |               |
| SIZE   | TOP   | BOTTOM  | SACKS CEMENT             | SCREEN                                | SIZE   | DEPTH SET                           | PACKER SET                                |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 26. Perforation record (interval, size, and number)  |   |   |                          |                                       | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC |                                     |   |                      |          |               |
|  |   |   |                          |                                       | DEPTH INTERVAL                                 |                                     | AMOUNT AND KIND MATERIAL USED             |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
|  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| <b>28. PRODUCTION</b>  |   |   |                          |                                       |  |                                     |   |                      |          |               |
| Date First Production  |   | Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )  |                          |                                       |  |                                     | Well Status ( <i>Prod or Shut-in</i> )    |                      |          |               |
| Date of Test   | Hours Tested  | Choke Size  | Prod'n For Test Period   | Oil - Bbl                             | Gas - MCF                                      | Water - Bbl                         | Gas - Oil Ratio                           |                      |          |               |
| Flow Tubing Press  | Casing Pressure   | Calculated 24-Hour Rate   | Oil - Bbl                | Gas - MCF                             | Water - Bbl                                    | Oil Gravity - API - ( <i>Corr</i> ) |   |                      |          |               |
| 29. Disposition of Gas ( <i>Sold, used for fuel, vented, etc</i> )   |   |   |                          |                                       |  |                                     | 30. Test Witnessed By                     |                      |          |               |
| 31. List Attachments   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| 33. If an on-site burial was used at the well, report the exact location of the on-site burial   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| Latitude 36 32027°N    Longitude 107 22042°W    NAD <input type="checkbox"/> 1927 <input checked="" type="checkbox"/> 1983   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief   |   |   |                          |                                       |  |                                     |   |                      |          |               |
| Signature <i>Ethel Tally</i>   |   |   | Printed Name Ethel Tally |                                       | Title: Staff Regulatory Technician             |                                     |   | Date: <i>8/25/12</i> |          |               |
| E-mail Address ethel.tally@conocophillips.com  |   |   |                          |                                       |  |                                     |   |                      |          |               |

# ConocoPhillips

Pit Closure Form:

Date: 7/18/08

Well Name: SS 27-5 #142E

Footages: 1505' FNL 1505' FWL Unit Letter: F

Section: 33, T-27-N, R-5 -W, County: Rio Arriba State: New Mexico

Pit Closure Date: 7/18/08

Contractor Closing Pit: ACE Services

Johnny McDonald  
Construction Inspector Name

7/18/08  
Date

ConocoPhillips

Johnny McDonald  
Signature

Revised 10/22/07

## Tally, Ethel

---

**From:** Busse, Dollie L  
**Sent:** Wednesday, July 16, 2008 6:42 AM  
**To:** Brandon.Powell@state.nm.us, Mark Kelly; Robert Switzer; Sherrie Landon  
**Cc:** Chavez, Virgil E; Kramme, Jeff L; McDonald Johnny (jr\_mcdonald@msn.com);  
acedragline@yahoo.com; Blair, Maxwell O; Blakley, Maclovio; Clark, Joan E; Farrell, Juanita  
R; Finkler, Jane; Maxwell, Mary A (SOS Staffing Services, Inc.); McWilliams, Peggy L,  
Seabolt, Elmo F  
**Subject:** Clean Up Notice - SJ 27-5 142E  
**Importance:** High  
**Attachments:** San Juan 27-5 unit 142e.rtf

**Ace Services** will move a tractor to the **SJ 27-5 Unit 142E** on **Friday, July 18** to start the reclamation process. Please contact Johnny McDonald (215-2861) if you have any questions or need additional information.  
Thanks!  
Dollie

**Network #: 10152802**

**Operator:** Burlington Resources  
**Legals:** 1505' FNL, 1505' FWL  
Section 33, T27N, R5W  
Unit Letter 'F' (SENW)  
Rio Arriba County, NM  
**Lease:** USA SF-079394  
**API #:** 30-039-30304  
**Surface/Minerals:** Fee/BLM



San Juan 27-5  
unit 142e.rtf (1...

**Dollie L. Busse**  
**ConocoPhillips Company-SJBU**  
Construction Technician  
Project Development  
505-324-6104  
505-599-4062 (fax)  
[Dollie.L.Busse@conocophillips.com](mailto:Dollie.L.Busse@conocophillips.com)

# ConocoPhillips

Reclamation Form:

Date: 7/30/08

Well Name: SJ 27-5 #142E

Footages: 1505' FNL 1505' FWL Unit Letter: F

Section: 33, T- 27 -N, R- 5 -W, County: Rio Arriba State: New Mexico

Reclamation Contractor: ACE Services

Reclamation Date: 7/21/08

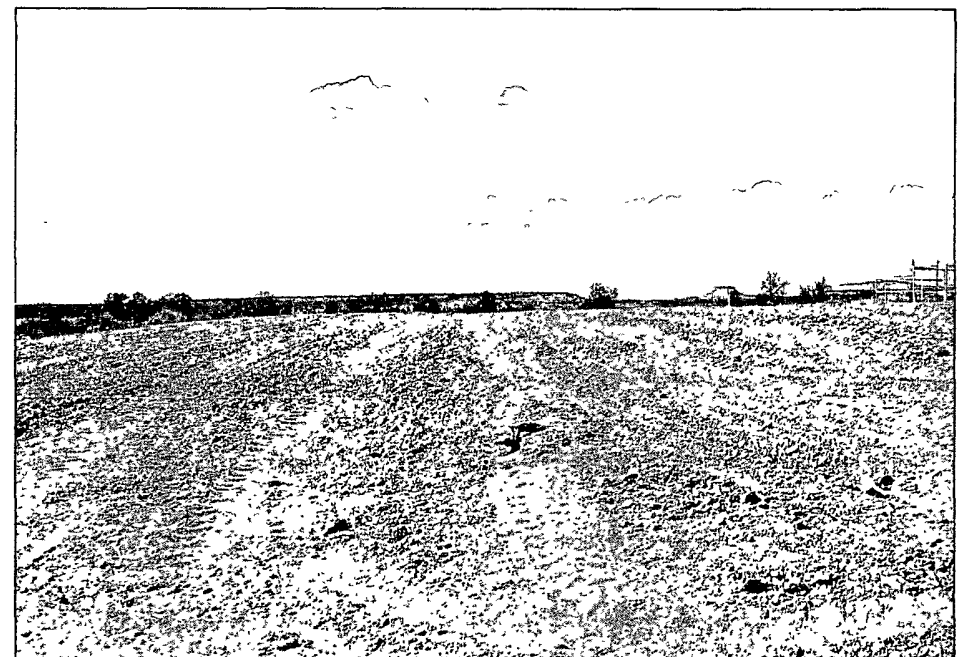
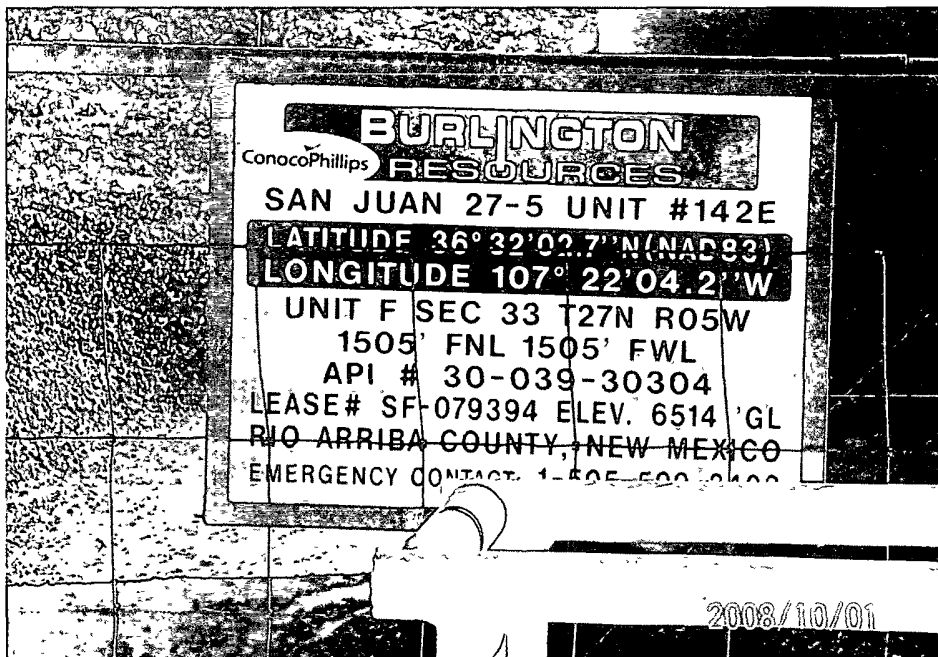
Road Completion Date: 7/23/08

Seeding Date: 7/25/08

Johnny McDonald 7/30/08  
Construction Inspector Name Date ConocoPhillips

Johnny McDonald  
Signature

Revised 3/12/08



## 1

[illegible]