

State of New Mexico  
Energy Minerals and Natural Resources

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

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**

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.

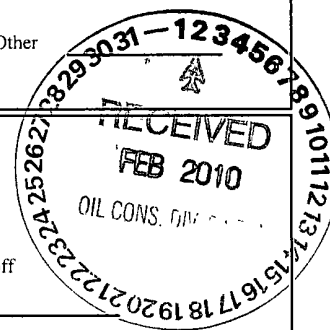
1  
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538  
 Address: P.O. Box 4289, Farmington, NM 87499  
 Facility or well name: HUERFANITO UNIT 47S  
 API Number: 30-045-34559 OCD Permit Number \_\_\_\_\_  
 U/L or Qtr/Qtr: I(NE/SE) Section: 27 Township: 27N Range: 9W County: San Juan  
 Center of Proposed Design: Latitude: 36.546045 °N Longitude: 107.769363 °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.



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6, 3

**Fencing:** Subsection D of 19 15 17 11 NMAC (*Applies to permanent pit, temporary pits, and below-grade tanks*)

☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate Please specify \_\_\_\_\_

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**Netting:** Subsection E of 19 15 17 11 NMAC (*Applies to permanent pits and permanent open top tanks*)

☐ Screen ☐ Netting ☐ Other \_\_\_\_\_

☐ Monthly inspections (*If netting or screening is not physically feasible*)

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**Signs:** Subsection C of 19.15 17 11 NMAC

☐ 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19 15 3 103 NMAC

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**Administrative Approvals and Exceptions:**

Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance

*Please check a box if one or more of the following is requested, if not leave blank:*

☐ Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval (Fencing/BGT Liner)

☐ Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

<p>10</p> <p><b>Siting Criteria (regarding permitting).</b> 19 15 17 10 NMAC</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> <p><b>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</b></p> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells</li> </ul> <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> <ul style="list-style-type: none"> <li>- Topographic map, Visual inspection (certification) of the proposed site</li> </ul> <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> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site; Aerial photo, Satellite image</li> </ul> <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> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image</li> </ul> <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> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site.</li> </ul> <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> <ul style="list-style-type: none"> <li>- Written confirmation or verification from the municipality, Written approval obtained from the municipality</li> </ul> <p><b>Within 500 feet of a wetland.</b></p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site</li> </ul> <p><b>Within the area overlying a subsurface mine.</b></p> <ul style="list-style-type: none"> <li>- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul> <p><b>Within an unstable area.</b></p> <ul style="list-style-type: none"> <li>- Engineering measures incorporated into the design, NM Bureau of Geology &amp; Mineral Resources, USGS; NM Geological Society, Topographic map</li> </ul> <p><b>Within a 100-year floodplain</b></p> <ul style="list-style-type: none"> <li>- FEMA map</li> </ul>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
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**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 Number: \_\_\_\_\_

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**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 \_\_\_\_\_

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**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

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**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 Burial  
☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

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**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 operations?

☐ 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

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**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 \_\_\_\_\_

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**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)OCD Representative Signature: Jonathan D. Kelly Approval Date: 9/28/2011Title: Compliance Officer OCD Permit Number: \_\_\_\_\_

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**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: June 17, 2009

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**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 \_\_\_\_\_

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**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

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**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 36.546 °N Longitude 107.769069 °W NAD ☐ 1927 ☒ 1983

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**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) Crystal Tafoya Title Regulatory Technician  
 Signature Crystal Tafoya Date 2/1/2010  
 e-mail address crystal.tafoya@conocophillips.com Telephone 505-326-9837

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

**Lease Name: HUERFANITO UNIT 47S**

**API No.: 30-045-34559**

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 email. (See Attached)(Well located on Federal 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	1.8 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	93.7 ug/kG
TPH	EPA SW-846 418.1	2500	83.9 mg/kg
GRO/DRO	EPA SW-846 8015M	500	ND mg/Kg
Chlorides	EPA 300.1	1000/ <del>500</del>	626 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 placed 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 through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.**

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 be 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 through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.**

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, HUERFANITO UNIT 47S, UL-I, Sec. 27, T 27N, R 9W, API # 30-045-34559**



## Tafoya, Crystal

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**From:** Tafoya, Crystal  
**Sent:** Thursday, July 10, 2008 8:16 AM  
**To:** 'mark\_kelly@nm.blm.gov'  
**Subject:** OCD Pit Closure Notification

The following temporary pits will be closed on-site. The new OCD Pit Rule 17 requires the surface owner be notified. Please feel free to contact me at any time if you have any questions. Thank you!

Allison Unit 2B  
Allison Unit 40N  
Angel Peak B 27E  
Ballard 11F  
Cain 725S  
Canyon Largo Unit 250N  
Canyon Largo Unit 279E  
Canyon Largo Unit 288E  
Canyon largo Unit 297E  
Canyon Largo Unit 465E  
Carson SRC 4E  
Day B 4P  
Day B 5A  
East 17S  
EPNG A 1B  
EPNG B 1M  
Federal A 1E  
Filan 5M  
Filan 5N  
Fogelson 4 100  
Fogelson 4 100S  
Grambling C 202S  
Hagood 19  
Hamner 9S  
Hardie 4P  
Hare 295  
Heaton Com 100  
Helms Federal 1G  
Howell 12  
Huerfanito Unit 103F  
Huerfanito Unit 29S  
Huerfanito Unit 39S  
Huerfanito Unit 47S  
Huerfanito Unit 50E  
Huerfanito Unit 75E  
Huerfanito Unit 83E  
Huerfanito Unit 87E  
Huerfanito Unit 90E  
Huerfanito Unit 90M  
Huerfanito Unit 98S  
Huerfano Unit 108F  
Huerfano Unit 282E  
Huerfano unit 305  
Huerfano unit 307  
Huerfano Unit 554  
Johnston Federal 24S

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

1301 W. Grand Avenue, Artesia, NM 88210

**District III**

1090 Rio Grande Rd., Aztec, NM 87410

**District IV**

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

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 - 7 Copies  
 Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 APT Number		2 Pool Code		3 Pool Name <b>BASIN FRUITLAND COAL</b>	
4 Property Code		5 Property Name <b>HUERFANITO UNIT</b>			6 Well Number <b>476</b>
7 OGRID No.		8 Operator Name <b>BURLINGTON RESOURCES OIL AND GAS COMPANY, LP</b>			9 Elevation <b>6387</b>

**10 SURFACE LOCATION**


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	27	27-N	9-W		2670	SOUTH	710	EAST	SAN JUAN

**11 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

12 Dedicated Acres <b>320.00</b>	13 Joint or Infill	14 Consolidation Code	15 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

<b>E2 DEDICATED ACREAGE</b> <b>USA SF-0078356-B</b> <b>SECTION 27</b> <b>T-27-N, R-09-W</b>		<b>WELL FLAG</b> <b>NAD 83</b> <b>LAT: 35.549048° N</b> <b>LONG: 107.780383° W</b> <b>NAD 27</b> <b>LAT: 35° 32.762167' N</b> <b>LONG: 107° 46.134837' W</b>		<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that the organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location of this well to drill this well at this location proposed to a company who is owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Printed Name _____ Title and E-mail Address _____ Date _____	
<b>USA SF-080117</b>		<b>710'</b> <b>2855.7'</b> <b>2855.2'</b>		<b>SURVEYOR CERTIFICATION</b> 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 9/20/07 Signature and Seal of the Licensed Surveyor:  Certificate Number: NM 11392	
<b>N 89°53' W</b> <b>N 89°54' 24" W</b>		<b>2855.7' (X)</b> <b>2855.2' (M)</b>			

# BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO UNIT #47S

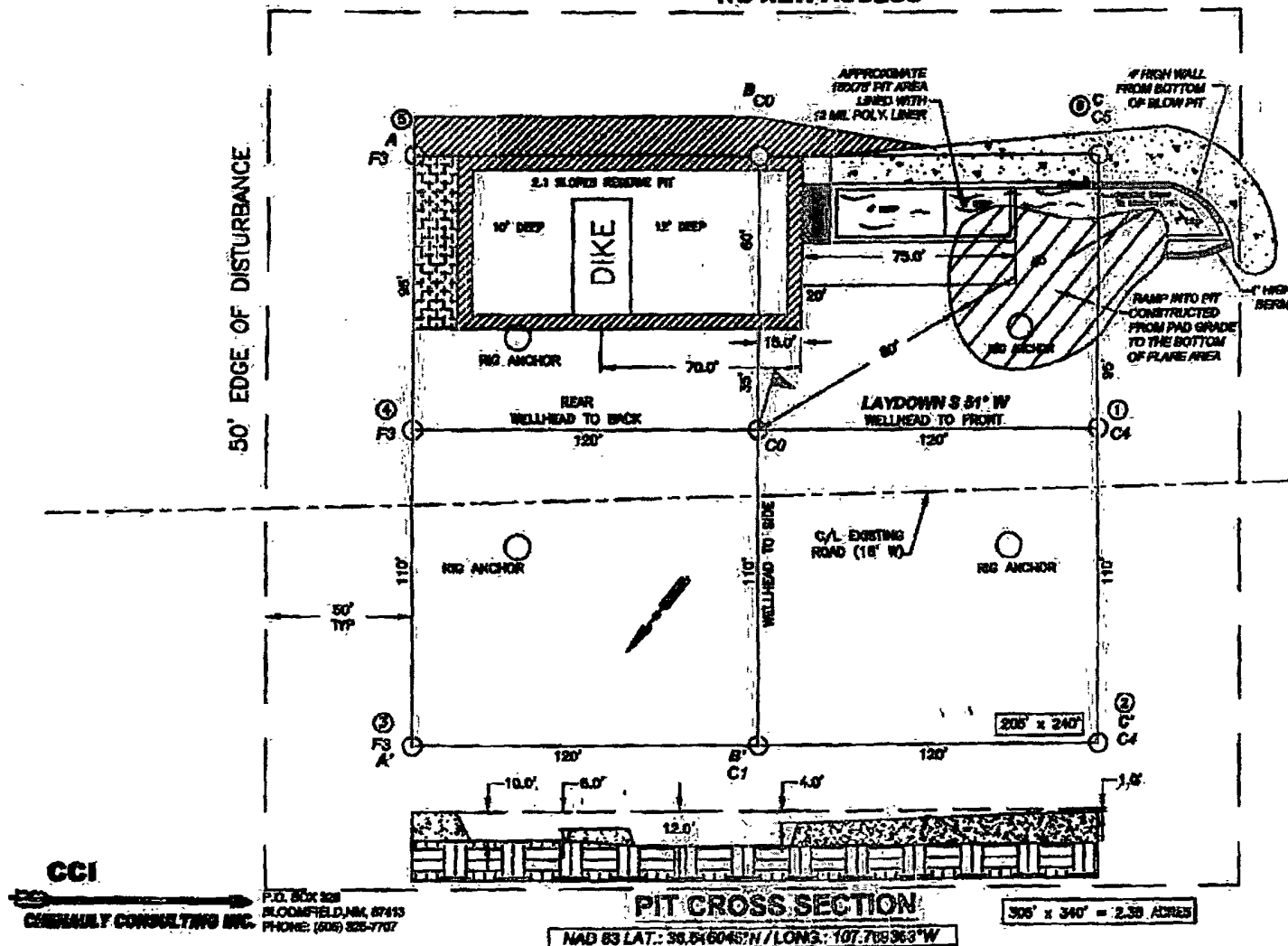
2570' FSL, 710' FEL

SECTION 27, T-27-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6387 NAVD88 DATE: SEPTEMBER 20, 2007

NO NEW ACCESS



NOTES:

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

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

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfano Unit 47S	Date Reported:	08-23-08
Laboratory Number:	46800	Date Sampled:	08-18-08
Chain of Custody No:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Extracted:	08-20-08
Preservative:		Date Analyzed:	08-21-08
Condition:	Intact	Analysis Requested:	8015 TPH

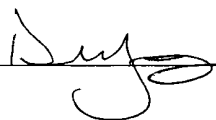
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

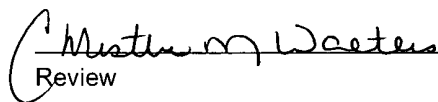
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst



Review



EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S Background	Date Reported:	08-23-08
Laboratory Number:	46801	Date Sampled:	08-18-08
Chain of Custody No:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Extracted:	08-20-08
Preservative:		Date Analyzed:	08-21-08
Condition:	Intact	Analysis Requested:	8015 TPH

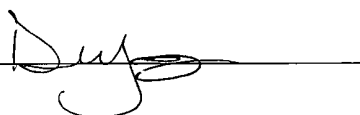
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

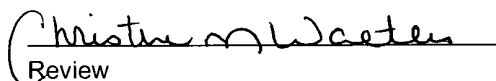
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst



Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

### Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-21-08 QA/QC	Date Reported:	08-23-08
Laboratory Number:	46800	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-21-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0045E+003	1.0049E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9798E+002	9.9838E+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

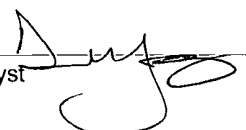
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

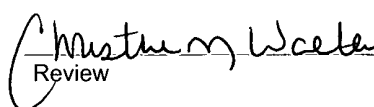
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	241	96.4%	75 - 125%
Diesel Range C10 - C28	ND	250	246	98.4%	75 - 125%

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 46800 - 46807 and 46814.

Analyst 

Review 

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S	Date Reported:	08-23-08
Laboratory Number:	46800	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Analyzed:	08-21-08
Preservative:		Date Extracted:	08-20-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.8	0.9
Toluene	7.7	1.0
Ethylbenzene	3.2	1.0
p,m-Xylene	67.7	1.2
o-Xylene	13.3	0.9
Total BTEX	93.7	

ND - Parameter not detected at the stated detection limit.

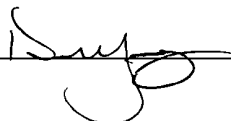
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

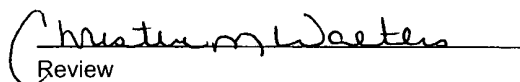
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit Sample

Analyst



Review



Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S Background	Date Reported:	08-23-08
Laboratory Number:	46801	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Analyzed:	08-21-08
Preservative:		Date Extracted:	08-20-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.8	0.9
Toluene	4.4	1.0
Ethylbenzene	2.2	1.0
p,m-Xylene	3.6	1.2
o-Xylene	2.0	0.9
Total BTEX	14.0	

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.

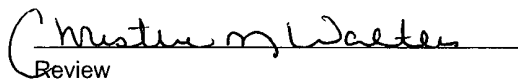
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit Sample

Analyst



Review





# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-21-BT QA/QC	Date Reported:	08-23-08
Laboratory Number:	46800	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-21-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff:	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	9.5129E+007	9.5320E+007	0.2%	ND	0.1
Toluene	7.2689E+007	7.2835E+007	0.2%	ND	0.1
Ethylbenzene	5.7148E+007	5.7262E+007	0.2%	ND	0.1
p,m-Xylene	1.1909E+008	1.1933E+008	0.2%	ND	0.1
o-Xylene	5.5929E+007	5.6041E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.8	1.9	5.6%	0 - 30%	0.9
Toluene	7.7	7.1	7.8%	0 - 30%	1.0
Ethylbenzene	3.2	2.9	9.4%	0 - 30%	1.0
p,m-Xylene	67.7	68.6	1.3%	0 - 30%	1.2
o-Xylene	13.3	12.9	3.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.8	50.0	51.4	99.2%	39 - 150
Toluene	7.7	50.0	54.7	94.8%	46 - 148
Ethylbenzene	3.2	50.0	52.8	99.2%	32 - 160
p,m-Xylene	67.7	100	161	95.8%	46 - 148
o-Xylene	13.3	50.0	62.9	99.4%	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 46800 - 46807 and 46813 - 46814.

Analyst

Review

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S	Date Reported:	08-25-08
Laboratory Number:	46800	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Analyzed:	08-22-08
Preservative:		Date Digested:	08-20-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.134	0.001	5.0
Barium	6.73	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.275	0.001	5.0
Lead	0.271	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.

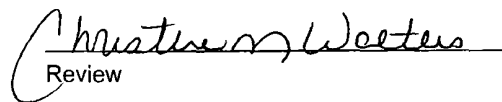
Note: Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, August 24, 1998.

Comments: **Drilling Pit Sample.**

Analyst



Review



Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S Background	Date Reported:	08-25-08
Laboratory Number:	46801	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Analyzed:	08-22-08
Preservative:		Date Digested:	08-20-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.057	0.001	5.0
Barium	7.17	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	0.264	0.001	5.0
Lead	0.365	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.

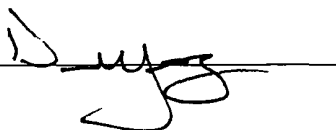
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.  
SW-846, USEPA, December 1996.

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

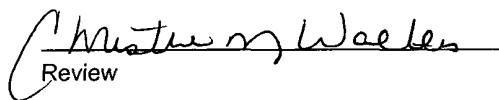
Note: Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, August 24, 1998.

Comments: **Drilling Pit Sample.**

Analyst



Review



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-22 TM QA/AC	Date Reported:	08-25-08
Laboratory Number:	46796	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-22-08
Condition:	N/A	Date Digested:	08-20-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.112	0.114	1.3%	0% - 30%
Barium	ND	ND	0.001	45.4	45.4	0.1%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.441	0.448	1.6%	0% - 30%
Lead	ND	ND	0.001	0.398	0.411	3.3%	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%

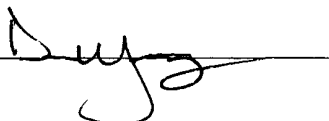
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.112	0.310	85.6%	80% - 120%
Barium	0.500	45.4	45.65	99.5%	80% - 120%
Cadmium	0.250	0.002	0.218	86.5%	80% - 120%
Chromium	0.500	0.441	0.836	88.9%	80% - 120%
Lead	0.500	0.398	0.772	86.1%	80% - 120%
Mercury	0.100	ND	0.096	95.9%	80% - 120%
Selenium	0.100	ND	0.103	103%	80% - 120%
Silver	0.100	ND	0.091	90.8%	80% - 120%

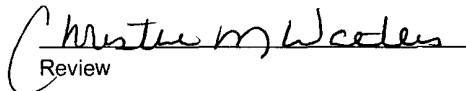
ND - Parameter not detected at the stated detection limit.

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/1QC for Samples 46796 - 46799 and 46800 - 46805.

Analyst 

Review 

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

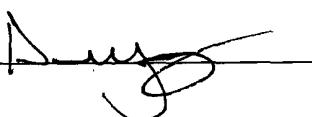
## CATION / ANION ANALYSIS

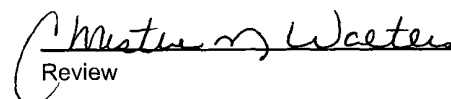
Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S	Date Reported:	08-26-08
Laboratory Number:	46800	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil Extract	Date Extracted:	08-20-08
Preservative:		Date Analyzed:	08-21-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	7.74	S.U.		
Conductivity @ 25° C	2,770	umhos/cm		
Total Dissolved Solids @ 180C	1,490	mg/L		
Total Dissolved Solids (Calc)	1,559	mg/L		
SAR	7.8	ratio		
Total Alkalinity as CaCO3	42.0	mg/L		
Total Hardness as CaCO3	214	mg/L		
Bicarbonate as HCO3	42.0	mg/L	0.69	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	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	626 ✓	mg/L	17.66	meq/L
Fluoride	0.170	mg/L	0.01	meq/L
Phosphate	0.520	mg/L	0.02	meq/L
Sulfate	253	mg/L	5.27	meq/L
Iron	<0.01	mg/L	0.00	meq/L
Calcium	71.3	mg/L	3.56	meq/L
Magnesium	8.70	mg/L	0.72	meq/L
Potassium	312	mg/L	7.98	meq/L
Sodium	262	mg/L	11.40	meq/L
Cations			23.65	meq/L
Anions			23.64	meq/L
Cation/Anion Difference			0.05%	

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 

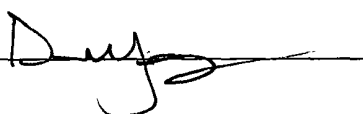
Review 

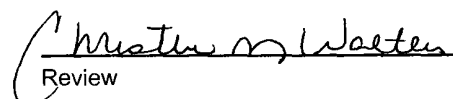
Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S Background	Date Reported:	08-26-08
Laboratory Number:	46801	Date Sampled:	08-18-08
Chain of Custody:	4981	Date Received:	08-19-08
Sample Matrix:	Soil Extract	Date Extracted:	08-20-08
Preservative:		Date Analyzed:	08-21-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	7.20	s.u.		
Conductivity @ 25° C	157	umhos/cm		
Total Dissolved Solids @ 180C	84.0	mg/L		
Total Dissolved Solids (Calc)	73.2	mg/L		
SAR	1.6	ratio		
Total Alkalinity as CaCO3	35.0	mg/L		
Total Hardness as CaCO3	21.8	mg/L		
Bicarbonate as HCO3	35.0	mg/L	0.57	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	5.31	mg/L	0.09	meq/L
Nitrite Nitrogen	4.15	mg/L	0.09	meq/L
Chloride	4.60	mg/L	0.13	meq/L
Fluoride	1.40	mg/L	0.07	meq/L
Phosphate	4.90	mg/L	0.15	meq/L
Sulfate	5.20	mg/L	0.11	meq/L
Iron	0.730	mg/L	0.03	meq/L
Calcium	6.60	mg/L	0.33	meq/L
Magnesium	1.30	mg/L	0.11	meq/L
Potassium	1.70	mg/L	0.04	meq/L
Sodium	16.8	mg/L	0.73	meq/L
Cations			1.24	meq/L
Anions			1.22	meq/L
Cation/Anion Difference			1.70%	

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:	Huerfanito Unit 47S	Date Reported:	08-25-08
Laboratory Number:	46800	Date Sampled:	08-18-08
Chain of Custody No:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Extracted:	08-22-08
Preservative:		Date Analyzed:	08-22-08
Condition:	Intact	Analysis Needed:	TPH-418.1

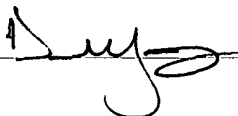
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	83.9	5.0

ND = Parameter not detected at the stated detection limit.

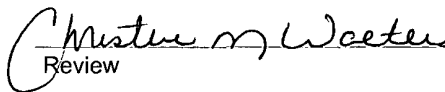
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No: 4551, 1978.

Comments: **Drilling Pit Sample.**

Analyst



Review



Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Huerfanito Unit 47S	Date Reported:	08-25-08
Laboratory Number:	46801	Date Sampled:	08-18-08
Chain of Custody No:	4981	Date Received:	08-19-08
Sample Matrix:	Soil	Date Extracted:	08-22-08
Preservative:		Date Analyzed:	08-22-08
Condition:	Intact	Analysis Needed:	TPH-418.1

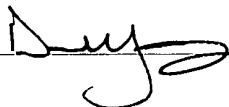
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	33.6	5.0

ND = Parameter not detected at the stated detection limit.

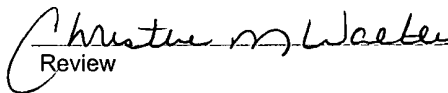
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Drilling Pit Sample Background.**

Analyst



Review





EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	08-25-08
Laboratory Number:	08-22-TPH.QA/QC 46800	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	08-22-08
Preservative:	N/A	Date Extracted:	08-22-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
	08-22-08	08-22-08	1,680	1,610	4.2%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	12.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	83.9	85.9	2.4%	+/- 30%

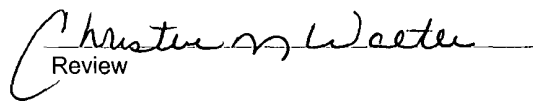
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
TPH	83.9	2,000	1,810	86.9%	80 - 120%


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 46800 - 46807 and 46813.

Analyst 

Review 

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N French Dr , Hobbs, NM 88240 <u>District II</u> 1301 W Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd , Aztec, NM 87410 <u>District IV</u> 1220 S St Francis Dr , Santa Fe, NM 87505	<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>	<div style="text-align: right;">Form C-105 July 17, 2008</div> <div>1. WELL API NO. <b>30-045-34559</b></div> <div>2. Type of Lease  <input type="checkbox"/> STATE    <input type="checkbox"/> FEE    <input checked="" type="checkbox"/> FED/INDIAN         </div> <div>3. State Oil &amp; Gas Lease No. <b>SF-080117</b></div>								
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>										
4 Reason for filing  <input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <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 <b>Huerfanito Unit</b>  6 Well Number. <b>47S</b>								
7 Type of Completion. <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 <b>Burlington Resources Oil Gas Company, LP</b>		9 OGRID 14538								
10 Address of Operator PO Box 4298, Farmington, NM 87499		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 <b>04/06/2008</b>		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 <b>36.546000°N</b> Longitude <b>107.769069°W</b> 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 			Printed Name Crystal Tafoya		Title: Regulatory Technician		Date: 2/1/2010			
E-mail Address crystal.tafoya@conocophillips.com										



Pit Closure Form:

Date: 6/17/2009


Well Name: Auerfeno 475

Footages: \_\_\_\_\_ Unit Letter: \_\_\_\_\_

Section: \_\_\_\_\_, T- \_\_\_\_\_ -N, R- \_\_\_\_\_ -W, County: SS State: NM

Contractor Closing Pit: ~~D.D. Ritter~~ Aztec

Construction Inspector: Norman Faver Date: 6/17/2009

Inspector Signature: 

**Tafoya, Crystal**

---

**From:** Silverman, Jason M  
**Sent:** Friday, June 12, 2009 4:17 PM  
**To:** Brandon.Powell@state.nm.us; Mark Kelly; Robert Switzer; Sherrie Landon  
**Cc:** 'Aztec Excavation'; 'Randy Flaherty'; Art Sanchez (sancon.art@gmail.com); Faver Norman (faverconsulting@yahoo.com); Jared Chavez; KENDAL BASSING; Scott Smith; Silverman, Jason M; Smith Eric (sconsulting.eric@gmail.com); Stan Mobley; Terry Lowe; Becker, Joey W; Bonilla, Amanda; Bowker, Terry D; Busse, Dollie L; Chavez, Virgil E; Gordon Chenault; GRP:SJBU Production Leads; Hockett, Christy R; Johnson, Kirk L; Kennedy, Jim R; Lopez, Richard A; Nelson, Terry J; O'Nan, Mike J.; Peace, James T; Pierce, Richard M; Poulson, Mark E; Richards, Brian; Smith, Randall O; Stamets, Steve A; Thacker, LARRY; Work, Jim A; Blair, Maxwell O (Maxwell.O.Blair@conocophillips.com); Blakley, Maclovio; Clark, Joan E (Joni.E.Clark@conocophillips.com); Farrell, Juanita R (Juanita.R.Farrell@conocophillips.com); Gillette, Steven L (Gray Surface Specialties and Consulting, Ltd.); Greer, David A; Hines, Derek J (Finney Land Co.); Mankin, Mike L. (Mike.L.Mankin@conocophillips.com); Maxwell, Mary Alice; McWilliams, Peggy L; Seabolt, Elmo F (Elmo.F.Seabolt@conocophillips.com); Stallsmith, Mark R  
**Subject:** Reclamation Notice : Huerfanito Unit 47S  
**Importance:** High  
**Attachments:** Huerfanito 47S.pdf

**Aztec Excavation** will move a tractor to the **Huerfanito Unit 47S** on **Tuesday**

**Afternoon, June 16th, 2009** to start the Reclamation Process.

Please contact Norm Faver (320-0670) if you have any questions or need further assistance.

Thanks, Jason Silverman

## **Burlington Resources Well- Network #10211493**

San Juan County, NM:

### **Huerfanito Unit 47S - BLM surface / BLM minerals**

2570' FSL, 710' FEL

Sec. 27, T27N, R9W

Unit Letter 'I'

Lease #: USA SF-080117

API #: 30-045-34559

Latitude: 36.546045° N (NAD 83)

Longitude: 107.769363° W

Elevation: 6387'

**Jason Silverman** -----

Construction Technician

**ConocoPhillips Company - SJBU**

**Construction Department**  
**P.O. Box 4289**  
**Farmington, NM 87499-4289**  
**505-326-9821**  
**Jason.M.Silverman@ConocoPhillips.com**

1/17/2010

ConocoPhillips



Reclamation Form:

Date: 8/12/2009

Well Name: Huerfano Unit 475

Footages: 2570 FSL 710 FEL Unit Letter: I

Section: 27, T-27-N, R-9-W, County: SJ State: NM

Reclamation Contractor: Aztec Excavation

Reclamation Date: 6/16/2009

Road Completion Date: 6/16/2009

Seeding Date: 7/7/2009

Construction Inspector: Norman Farnham Date: 8/12/2009

Inspector Signature: Norman Farnham

ConocoPhillips

# BURLINGTON RESOURCES

HUERFANITO UNIT #47S

LATITUDE 36.546045° N(NAD83)

LONGITUDE 107.769363° W

UNIT I SEC 27 T27N R09W

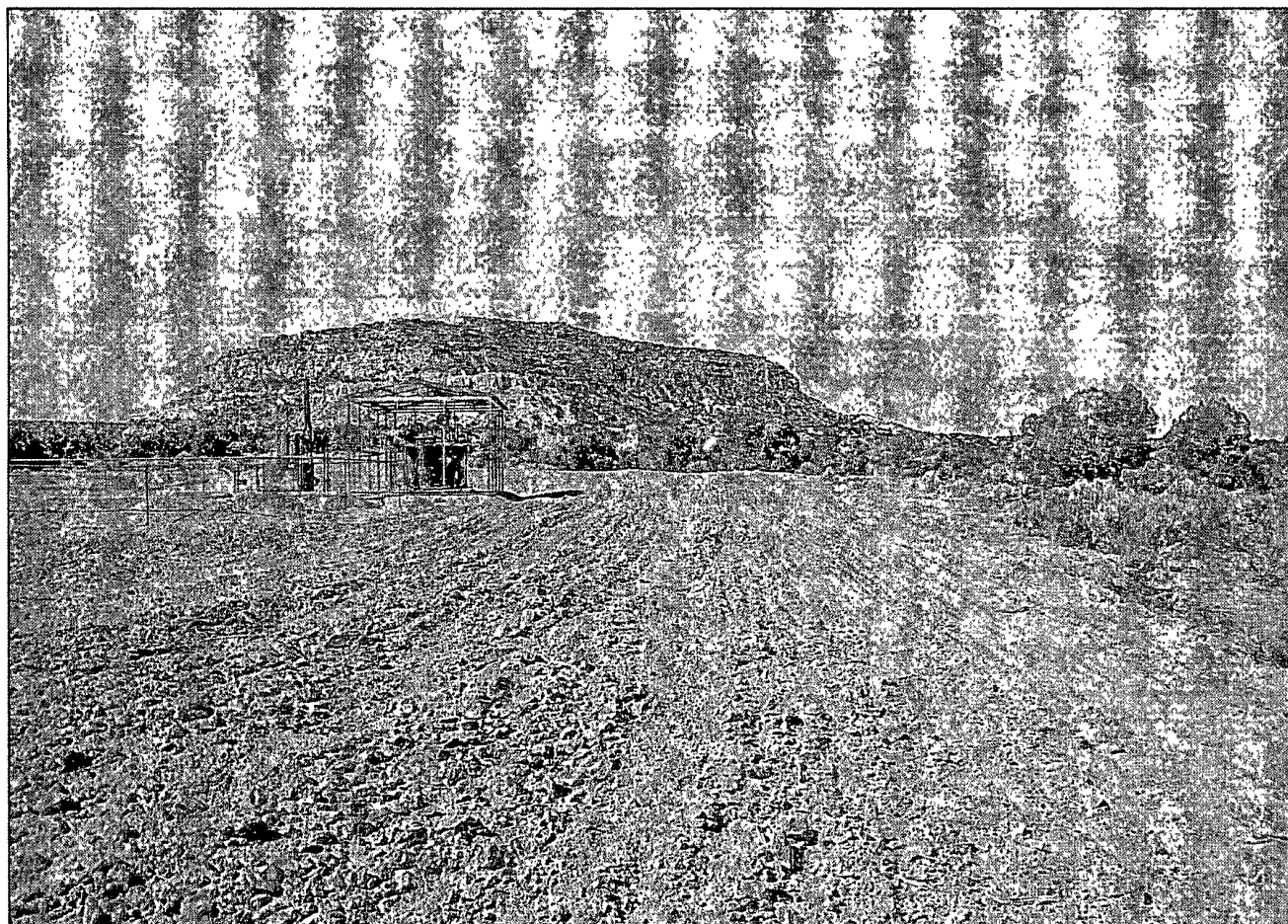
2570' FSL 710' FEL

API # 30-045-34559

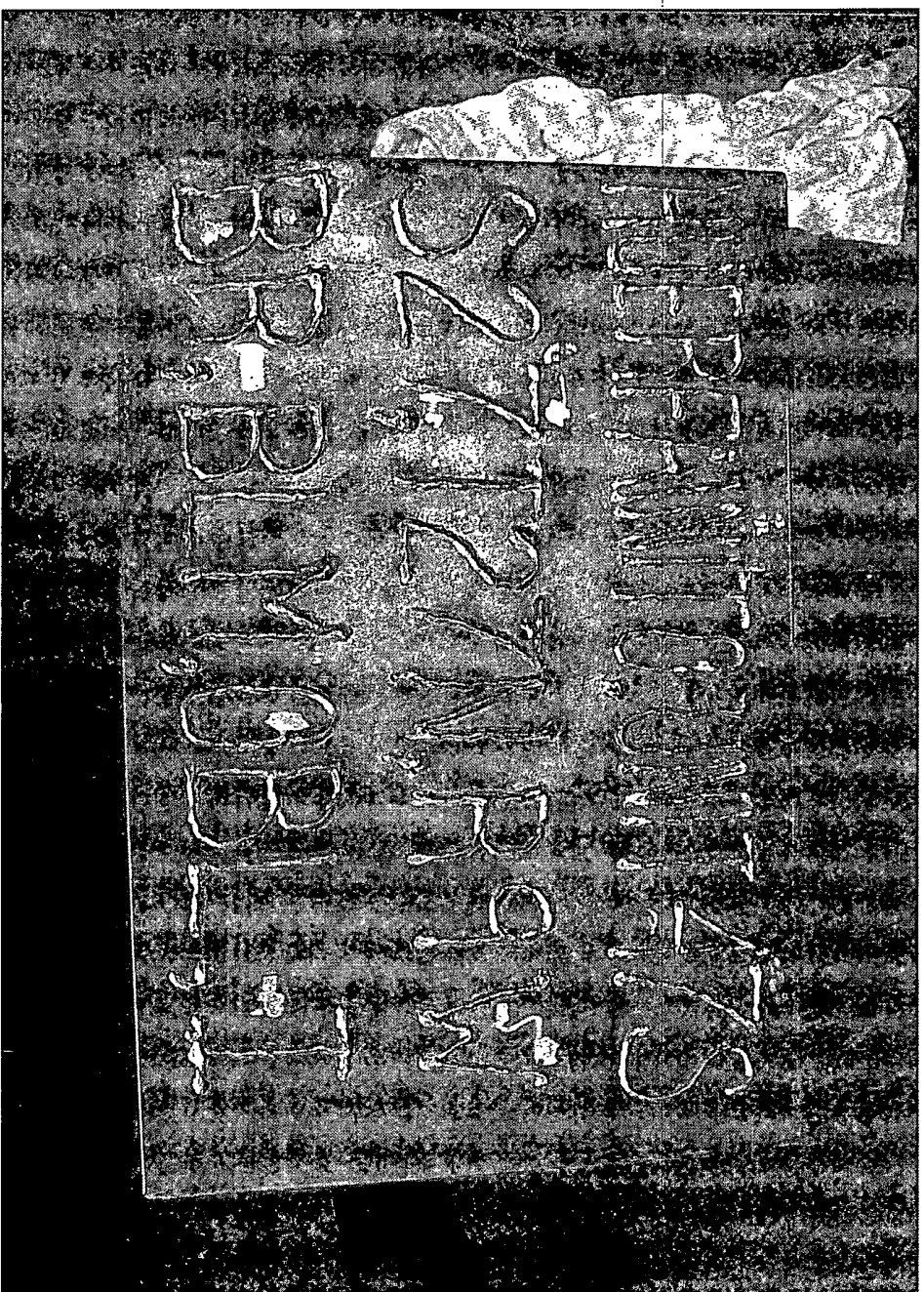
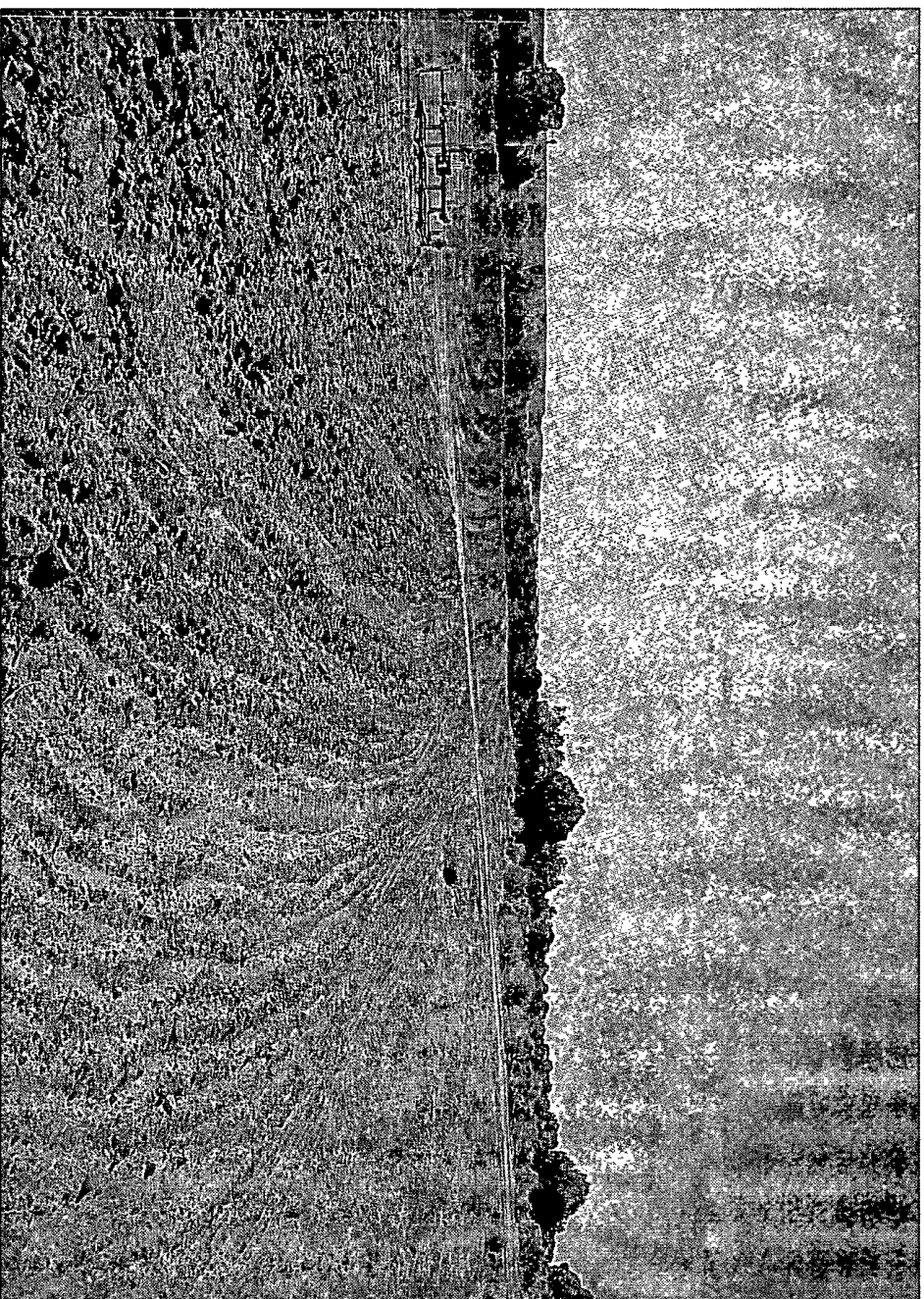
LEASE# USA SF-080117 ELEV. 6387' GL

SAN JUAN COUNTY, NEW MEXICO

EMERGENCY CONTACT: 1 505-599-3400









## WELL PAD SAFETY AND ENVIRONMENTAL CHECK LIST

WELL NAME: Huerfanito Unit 47S

API#: 30-045-34559

DATE	INSPECTOR	SAFETY CHECK	LOCATION CHECK	PICTURES TAKEN	COMMENTS
4/14/08	J. McDonald	X	X		
4/30/08	Jared Chavez	X	X		Tear in liner along North fence line straight out from well head,
5/16/08	Jared Chavez	X	X		Fence needs tightened, called MVCI
6/3/08	Jared Chavez	X	X		Pit and location in good condition
6/3/08	Jared Chavez	X	X		Pit and location in good condition
6/9/08	Scott Smith				Rig on location
6/16/08	Scott Smith	X	X	X	Repair fence, barbed wire on N and E sides of pit, contacted MVCI
6/23/08	Scott Smith	X	X	X	Some small oil stains on location 1 to 2 square feet max, liner has some small holes at blow pit where it was burned, construction crew unloading back hoe with it left, called MVCI and OCD
6/30/08	Scott Smith	X	X	X	Repair small holes in liner at blow pit at E end of reserve pit on apron, construction crew on location
7/7/08	Scott Smith				Repair liner, small hole at blow pit, small holes NE side of reserve pit, called MVCI and OCD
7/14/08	Scott Smith	X	X	X	Repair holes in liner
8/4/08	Scott Smith	X	X	X	Large tear in liner at blow pit, contacted OCD
8/8/08	Scott Smith	X	X	X	Fence and liner in good condition
8/15/08	Scott Smith	X	X	X	Fence and liner in good condition
8/22/08	Scott Smith	X	X	X	Fence and liner in good condition
8/29/08	Scott Smith	X	X	X	Fence and liner in good condition
9/12/08	Scott Smith	X	X	X	Fence and liner in good condition

9/19/08	Scott Smith	X	X	X	Fence and liner in good condition
9/26/08	Scott Smith	X	X	X	Fence and liner in good condition
10/10/08	Scott Smith	X	X	X	Fence and liner in good condition
10/17/08	Scott Smith	X	X	X	Fence and liner in good condition
10/24/08	Scott Smith	X	X	X	Fence and liner in good condition
11/07/08	Scott Smith	X	X	X	Fence and liner in good condition
11/14/08	Scott Smith	X	X	X	Fence and liner in good condition
11/21/08	Scott Smith	X	X	X	Fence and liner in good condition
12/5/08	Scott Smith	X	X	X	Fence and liner in good condition
12/11/08	Scott Smith				Rig on location
12/19/08	Scott Smith	X	X	X	Fence and liner in good condition
1/2/09	Scott Smith	X	X	X	Fence and liner in good condition
1/9/09	Scott Smith	X	X	X	Fence and liner in good condition
1/16/09	Scott Smith	X	X	X	Fence and liner in good condition
1/22/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
1/30/09	Scott Smith	X	X	X	Fence and liner in good condition
2/9/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
2/13/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
3/6/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit
3/13/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
3/22/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
4/3/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.

4/9/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
4/17/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
4/24/09	Scott Smith				
5/1/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
5/15/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
5/22/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
6/1/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
6/8/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
6/12/09	Scott Smith	X	X	X	Fence and liner in good condition, no diversion ditch at pit.
6/17/09	N. Faver				Pit Closed
8/12/09	N. Faver				Reclamation of pit area & location