District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
13646 Proposed Alternative Method Permit or Closure Plan Application OIL CONS. DIV DIST. 3
Type of action: Below grade tank registration Permit of a pit or proposed alternative method DEC 04 2015 USE 0010: D10 D10110 DEC 04 2015 Modification to an existing permit/or registration DEC 04 2015
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, 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: <u>Burlington ResourcesOil & Gas Company, LP</u> OGRID #: <u>14538</u>
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: Huerfanito Unit 79M
API Number: <u>30-045-28948</u> OCD Permit Number:
U/L or Qtr/Qtr J (NWSE) Section 26 Township 27N Range 09W County: San Juan
Center of Proposed Design: Latitude <u>36.54375 °N</u> Longitude <u>-107.75468</u> °W NAD: □1927 ⊠ 1983
Surface Owner: 🛛 Federal 🗋 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil XLDPE HDPE PVC Other String-Reinforced
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u>
Tank Construction material: Metal
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 Unspecified
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, 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
Form C-144 Oil Conservation Division Page 1 of 6

•	
6. <u>Netting</u> : Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	1.18-4
Screen Netting Other	and the second
Monthly inspections (If netting or screening is not physically feasible)	INF REALP
7.	
Signs: Subsection C of 19.15.17.11 NMAC	1942 19 203
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	1
Signed in compliance with 19.15.16.8 NMAC	
Signed in compliance with 19.15.10.8 NWAC	
 8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate transaction and the provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ Yes □ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
 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. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	Yes No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	□ Yes □ No
 Within an unstable area. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗆 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗋 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	A CARLES
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet 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 search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
 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 1000 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
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 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
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. 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 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	cuments are NMAC 15.17.9 NMAC
11. Multi-Well Fluid Management Pit 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 doc attached. 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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	<u></u>

^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i>	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 H₂S, 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 	Sec. 14
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
□ Alternative Proposed Closure Method:	
 On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method 	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	
 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 C 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 H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
15.	
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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 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 NA
Ground water is between 25-50 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 □ NA
 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 □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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	
Form C-144 Oil Conservation Division Page 4 of	f6

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 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 	
	Yes No
Within a 100-year floodplain. - FEMA map	Yes No
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.1 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan - based upon the appropriate requirements 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 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 H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	1 NMAC 5.17.11 NMAC
17. Operator Application Certification:	1.1.1
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belie	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) 🛛 Closure Plan (only) 🔲 OCD Conditions (see attachment)	
OCD Representative Signature: Danesser Construction Approval Date: 12121	12015
Title: Covironmental pecialist OCD Permit Number:	
19. <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting to The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not consection of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: <u>9/06/2011</u>	
20. Closure Method:	14 . P. P. P. A. A.
Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loo If different from approved plan, please explain.	op systems only)

Oil Conservation Division

22. 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 Walker Title: Regulatory Coordinator

Signature:

Date: 12/3/15

e-mail address: crystal.walker@cop.com Telephone: (505) 326-9837

Burlington Resources Oil Gas Company, LP San Juan Basin Below Grade Tank Closure Report (Without Reclamation)

Lease Name: HUERFANITO UNIT 79M API No.: 30-045-28948

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

- BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

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). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

 BR Will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

5. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

6. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	EPA SW-846 418.1	100
Chlorides	EPA 300.1	250

 If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was not determined for the above referenced well.

8. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week 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 missing.

10. The surface owner shall be notified of BR's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner not found.

11. 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 below-grade tank area will be re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping, including 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 recontour has a uniform appearance with smooth surface, fitting the natural landscape.

12. BR Shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs. Provision 13 will be accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

13. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Missing)

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Iame of Company Burlington ResourcesOil & Gas Company Contact Crystal Walker Iddress 3401 East 30th St., Farmington, NM 87402 Telephone No. 505-326-9837 acility Name Huerfanito Unit 79M Facility Type Gas Well urface Owner Federal Mineral Owner Federal Lease # SF-078358 API No. 30-045-28948 LOCATION OF RELEASE Jit Letter Section Township Range Feet from the North/South Line Feet from the County J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 Date and Hour of Cocurrence ype of Release Volume of Release n/a Volume Recovered n/a Outer of Discovery Vas Immediate Notice Given? If YES, To Whom? If YES, To Whom? If YES, Volume Impacting the Watercourse. 'yas a Watercourse Reached? Yes No No No No No 'a Watercourse was Impacted, Describe Fully.* '//A If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If Yes </th <th>220 S. St. Fran</th> <th>cis Dr., Santa</th> <th>a Fe, NM 8/503</th> <th>,</th> <th>Sa</th> <th>anta Fe</th> <th>, NM 875</th> <th>05</th> <th>1.</th> <th></th> <th></th> <th></th>	220 S. St. Fran	cis Dr., Santa	a Fe, NM 8/503	,	Sa	anta Fe	, NM 875	05	1.				
tame of Company Burlington ResourcesOil & Gas Company Contact Crystal Walker tddress 30h East 30h St, Farmington, NM 87402 Telephone No. 505-326-9837 acility Name Huerfanito Unit 79M Facility Type Gas Well urface Owner Federal Mineral Owner Federal Lease # SF-078358 API No. 30-045-28948 LOCATION OF RELEASE Jnit Letter Section Township Range Feet from the North/South Line Feet from the County J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 Natture OF RELEASE ype of Release Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery If YES, To Whom? Vas Immediate Notice Given? Yes No No Required If YES, Volume Impacting the Watercourse. 'Yes No No N/A If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. 'Ya Yes No				Rele	ase Notific	cation	and Co	orrective A	ction				
Address 3401 East 30th St., Farmington, NM 87402 Telephone No. 505-326-9837 acility Name Huerfanito Unit 79M Facility Type Gas Well urface Owner Federal Mineral Owner Federal LocATION OF RELEASE Interaction of the control of							OPERA'	FOR	🗌 Ini	tial Report		Final Repo	
address 3401 East 30 th St., Farmington, NM 87402 Telephone No. 505-326-9837 acility Name Huerfanito Unit 79M Facility Type Gas Well urface Owner Federal Mineral Owner Federal LocATION OF RELEASE Interaction of the North/South Line J 26 27N 09W 1795 South 1730 East Section Township Range Feet from the North/South Line Feet from the Latitude 36,54375 Longitude -107.75468 NATURE OF RELEASE Volume Recovered yes of Release Date and Hour of Occurrence Ourse of Release Date and Hour of Occurrence Vas Immediate Notice Given? If YES, To Whom? If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Yes No <n a<="" td=""> Yes No<n a<="" td=""></n></n>	Name of Co	mpany B	urlington Re	sourcesO	il & Gas Comp	any (Contact C	rystal Walker			1		
Init Letter Federal Mineral Owner Federal Lease # SF-078358 API No. 30-045-28948 LOCATION OF RELEASE Jnit Letter Section Township Range Feet from the North/South Line Feet from the County Joit Letter Section Township Range Feet from the North/South Line Feet from the County J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE Ype of Release Volume of Release n/a Volume Recovered n/a Ource of Release Value and Hour of Occurrence Date and Hour of Discovery If YES, To Whom? Value and Hour If YES, Volume Impacting the Watercourse. Ype Of Release Date and Hour <th c<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Telephone M</td><td>No. 505-326-98</td><td>37</td><td>No. La</td><td>2.5</td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Telephone M</td> <td>No. 505-326-98</td> <td>37</td> <td>No. La</td> <td>2.5</td> <td></td>							Telephone M	No. 505-326-98	37	No. La	2.5	
LOCATION OF RELEASE Jnit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery Yas Immediate Notice Given? Yes No Not Required Yg Whom? Date and Hour Date and Hour Matercourse Yes No No N/A If YES, Volume Impacting the Watercourse. 'a Watercourse was Impacted, Describe Fully.* //A //A Escribe Cause of Problem and Remedial Action Taken.*	Facility Nar	ne Huert	fanito Unit '	79M		I	Facility Typ	e Gas Well		March 1			
J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE Ype of Release Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery Yas Immediate Notice Given? If YES, To Whom? If YES, Volume Impacting the Watercourse. Yes No No N/A 'a Watercourse was Impacted, Describe Fully.* //A	Surface Ow	ner Fe	deral		Mineral C	Owner F	ederal Le	ase # SF-07835	58 APIN	lo. 30-045-	28948		
J 26 27N 09W 1795 South 1730 East San Juan Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE Youre of Release Volume of Release n/a Volume Recovered n/a Outre of Release Value of Release Volume of Release n/a Volume Recovered n/a Ource of Release Value No No Required Yes No No Required If YES, To Whom? Value and Hour Yes No No N/A If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. 'a Watercourse was Impacted, Describe Fully.* //A //A	1.1.1.1				LOCA	TION	OF REI	LEASE					
Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE ype of Release Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery Vas Immediate Notice Given? If YES, To Whom? If YES, To Whom? Vas a Watercourse Reached? Yes No N/A If YES, Volume Impacting the Watercourse. 'a Watercourse was Impacted, Describe Fully.* I/A	Unit Letter	Section	Township	Range					East/West Line		Coun	ty	
Latitude 36.54375 Longitude -107.75468 NATURE OF RELEASE ype of Release Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery Vas Immediate Notice Given? If YES, To Whom? If YES, To Whom? Vas a Watercourse Reached? Yes No N/A If YES, Volume Impacting the Watercourse. 'a Watercourse was Impacted, Describe Fully.* I/A													
NATURE OF RELEASE ype of Release Volume of Release n/a Volume Recovered n/a ource of Release Date and Hour of Occurrence Date and Hour of Discovery Was Immediate Notice Given? If YES, To Whom? If YES, To Whom? was a Watercourse Reached? Date and Hour If YES, Volume Impacting the Watercourse. ''a Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse.	J	26	27N	09W	1795	5	South	1730	East		San Ju	lan	
by Whom? Date and Hour Vas a Watercourse Reached? If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse.	Source of Re	lease		Yes	No 🛛 Not Re	equired	Date and H	lour of Occurrence		ATTACK ZALLA UNDALLA CALANA	PROPERTY AND		
Vas a Watercourse Reached? Yes No N/A Ta Watercourse was Impacted, Describe Fully.* //A Describe Cause of Problem and Remedial Action Taken.*	By Whom?						Date and H	lour					
I/A Describe Cause of Problem and Remedial Action Taken.*		course Read		Yes 🛛	No N/A		If YES, Vo	blume Impacting	the Watercourse.	1.90			
Describe Cause of Problem and Remedial Action Taken.*	If a Watercou	irse was Im	pacted, Descr	ibe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*	N/A												
//A													
	Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
	N/A												
	Decoriba Are	Affaated	and Cleanur	ation Tak	an *	_				-	-		

BGT CLOSURE: NO RELEASE FOUND UPON REMOVAL

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Stal Walker	<u>OIL CC</u>	DNSERVATION DIVISION
Printed Name: Crystal Walker	Approved by Environment	al Specialist:
Title: Regulatory Coordinator	Approval Date:	Expiration Date:
E-mail Address: crystal.walker@cop.com Date: 12/3/15 Phone: 505-326-9837	Conditions of Approval:	Attached

Attach Additional Sheets If Necessary



October 17, 2011

Project Number 92115-1939

Ms. Shelly Cook-Cowden ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87401

Cell: (505) 320-0699

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE HUERFANITO #79M (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities conducted at the Huerfanito #79M (hBr) well site located in Section 26, Township 27 North, Range 9 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on September 6, 2011, one (1) five (5)-point composite sample was collected from directly beneath the BGT; see attached *Field Notes*. The sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for total petroleum hydrocarbons (TPH) using USEPA Method 8015, benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory limits for all constituents analyzed, confirming a release did not occur; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted, ENVIROTECH, INC.



Environmental Field Technician jrollins@envirotech-inc.com

Enclosures: Field Notes Analytical Results

Cc: Client File 92115

PAGE NO: / OF /	-	E	3 en	viro	tech		ENVIRONN	MENTAL SPECIAL
DATE STARTED: 9/6 /11		-	5796 U.S	. Hwy 64, Farm	Ington, NM 8740	н	LAT: 36.	54376382
DATE FINISHED: 9/6/11		11000	PHO	NE: (505) 63	2-0615	And the second		7. 7549677
F	IELD RE	EPORT:	BGT/P	IT CLOS	SURE VE	RIFICAT	TION	
LOCATION: NAME: Hu		(hBr)	WELL #: 7		TEMP PIT:		IENT PIT:	BGT: X
QTR/FOOTAGE: 1150 FSL	the second se	Fal	CNTY: S	TWP: 2:	IN	RNG: 96 ST: NM		PM: NM
EXCAVATION APPROX:	NS F	т. х	NO	FT. X	NGA	FT. DEEP	CUBIC YAI	RDAGE:
	NX			REMEDIA'	TION METHO	DD: NA		alles market
LAND OWNER:	A strate	State of States		450613		BGT / PIT	and the second se	
CONSTRUCTION MATERIAL	: ESte	.1	DOUBLE-	WALLED, W	VITH LEAK I	DETECTION	I: NA	Here's a series of the series
LOCATION APPROXIMATEL	Y: c	71	FT. East	b.	FROM WELL	HEAD		
DEPTH TO GROUNDWATER:								
PERMANENT PIT OR BG BENZENE \$ 0.2 mg/kg, BTE		g, TPH (418.1)) ≤ 100 mg/kj		ES ≤ 250 mg/kg D 418.1 ANAL			
F	TIME IS	SAMPLE I.D.	LAB NO.		mL FREON		READING	CALC. (mg/kg)
	-	STD	-	-		-		
	-	-	1	-	-	-		-
			2					
and apply and a second s			3		and the second sec			
			3					
			4					
Ē			4					
PERIMET	TER		4 5 6	HLORIDES	S RESULTS		PRO	FILE
PERIMET	TER		4 5 6 FIELD C		CALC.		PRO	FULE
PERIMET	ER		4 5 6 FIELD C	HLORIDE			PRO	FILE
PERIMET	TER		4 5 6 FIELD C		CALC.		PRO	FILE
PERIMET	TER		4 5 6 FIELD C		CALC.		PRO	FILE
PERIMET	TER	2)	4 5 6 FIELD C		CALC.		PRO	FULE
PERIMET	TER		4 5 6 FIELD C SAMPLE ID	READING	CALC. (mg/kg)			FILE
PERIMET	Tel -)	4 5 6 FIELD C SAMPLE ID		CALC. (mg/kg)			FILE
PERIMET N N	TER	P)	4 5 6 FIELD C SAMPLE ID	READING	CALC. (mg/kg)		PRO	FULE
PERIMET	Tel -	P)	4 5 6 FIELD C SAMPLE ID	READING	CALC. (mg/kg)			FILE
PERIMET	Tel -	D	4 5 6 FIELD C SAMPLE ID	READING	CALC. (mg/kg)			FULE
PERIMET	Tel -)	4 5 6 FIELD C SAMPLE ID	READING	CALC. (mg/kg)			FILE
PERIMET	100 100 100)	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)		Zarra aya	
PERIMET	100 100 100)	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)		Zarra aya	
A LAB SAMPLES	100 100 100	NOTES:	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)	X=-50	Zarra aya	
LAB SAMPLES SAMPLE D ANALYSIS 1	100 100 100	NOTES:	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)	X= se No +	Zarra aya	FILE in field
LAB SAMPLES SAMPLE D ANALYSIS I BENZENE	100 100 100	NOTES:	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)	X= = = No =	Zarra aya	
LAB SAMPLES SAMPLE D ANALYSIS 1	100 100 100	NOTES:	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)	X= 50 No +	Zarra aya	
LAB SAMPLES SAMPLE D ANALYSIS I BENZENE Ø 6 7 BTEX	100 100 100	NOTES:	4 5 6 FIELD C SAMPLE ID SAMPLE	READING	CALC. (mg/kg)	X= 50 No 7	Zarra aya	

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	92115-1939	
Sample ID:	BGT	Date Reported:	09-07-11	
Laboratory Number:	59533	Date Sampled:	09-06-11	
Chain of Custody No:	12522	Date Received:	09-06-11	
Sample Matrix:	Soil	Date Extracted:	09-06-11	
Preservative:	Cool	Date Analyzed:	09-07-11	
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	

ND - Parameter not detected at the stated detection limit.

envirotech Analytical Laboratory

References:

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

Comments:

Huerfanito #79M.

nal

5

Review

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech Analytical Laboratory

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A	
Sample ID:	09-07-11	QA/QC	Date Reported:		09-07-11	
Laboratory Number:	59533		Date Sampled:		N/A	
Sample Matrix:	Methylene	Chloride	Date Received:	N/A		
Preservative:	N/A		Date Analyzed:	09-07-11		
Condition:	N/A		Analysis Reques	ted:	TPH	
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range	
Gasoline Range C5 - C10	40793	1.009E+03	1.009E+03	0.04%	0 - 15%	
Diesel Range C10 - C28	40793	9.944E+02	9.948E+02	0.04%	0 - 15%	
Blank Conc. (mg/L - mg/Kg)	Concentration	Contraction of Contraction of	Detection Limit		
Gasoline Range C5 - C10		7.22		0.2		
Diesel Range C10 - C28		1.95		0.1		
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range		
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%	a standing	
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%		
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range	
Gasoline Range C5 - C10	ND	250	248	99.1%	75 - 125%	
Diesel Range C10 - C28	ND	250	254	101%	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 59524, 59533, 59548.

Review

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	1	Project #:		92115-1939
Sample ID:	BGT	1	Date Reported:		09-07-11
Laboratory Number:	59533	1	Date Sampled:		09-06-11
Chain of Custody:	12522	(Date Received:		09-06-11
Sample Matrix:	Soil	1	Date Analyzed:		09-07-11
Preservative:	Cool	- 1	Date Extracted:		09-06-11
Condition:	Intact	744	Analysis Requested:		BTEX
			Dilution:		10
Parameter		Concentration (ug/Kg)		Det. Limit (ug/Kg)	
Benzene		ND		0.9	
Toluene		ND		1.0	
Ethylbenzene		1.4		1.0	
p,m-Xylene		11.0		1.2	
o-Xylene		6.0		0.9	
Total BTEX		18.4			
	The second se				

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery				
	Fluorobenzene	105 %				
	1,4-difluorobenzene	119 %				
	Bromochlorobenzene	90.0 %				

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: Huerfanito #79 M.

ZI

m

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 0907BBLK QA/QC 59533 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis: Dilution:	N/A 09-07-11 N/A N/A 09-07-11 BTEX 10		
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.	
Detection Limits (ug/L)	and the sales of	Accept. Ra	nge 0 - 15%	Conc	Limit	
Benzene	3.7271E+006	3.7345E+006	0.2%	ND	0.1	
Toluene	3.7575E+006	3.7650E+006	0.2%	ND	0.1	
Ethylbenzene	3.3194E+006	3.3260E+006	0.2%	ND	0.1	
p,m-Xylene	9.1822E+006	9.2006E+006	0.2%	ND	0.1	
o-Xylene	3.0674E+006	3.0736E+006	0.2%	ND	0.1	

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	1.4	1.5	7.1%	0 - 30%	1.0
p,m-Xylene	11.0	9.9	10.0%	0 - 30%	1.2
o-Xylene	6.0	5.0	16.7%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	482	96.3%	39 - 150
Toluene	ND	500	490	98.0%	46 - 148
Ethylbenzene	1.4	500	493	98.3%	32 - 160
p,m-Xylene	11.0	1000	1,010	99.9%	46 - 148
o-Xylene	6.0	500	498	98.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 Datectors, SW-846, USEPA December 1996,

Comments: QA/QC for Samples 59517-59518, 59489-59490, 59524, 59533, 59548. .4 Review



Chloride

Client:	ConocoPhillips	Project #:	92115-1939	
Sample ID:	BGT	Date Reported:	09/07/11	
Lab ID#:	59533	Date Sampled:	09/06/11	
Sample Matrix:	Soil	Date Received:	09/06/11	
Preservative:	Cool	Date Analyzed:	09/07/11	
Condition:	Intact	Chain of Custody:	12522	

Parameter	Concentration (mg/Kg)

Total Chloride

60

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Huerfanito #79M.

5796 US Highway 64, Farmington, NM 87401

H.n

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Client:			Project Name / L Huertenito	ocation	1: 70 0							in it		ANAL	YSIS	/ PAR	AME	TERS					
Client Address:		-	Sampler Name:		19 101				11EN	(DID	2601	1	Τ		Γ				T				
Client Phone No.:			Client No.: 92115-1		9				또) 중 · · · · · · · · · · · · · · · · · ·	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	RCRA 8 Metals Cation / Anion	/ Anion	TCLP with H/P			TPH (418.1)	RIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample		5	Sample Matrix	No./Volume of Containers		HCI 4	ive v	RTEX	VOC	RCRA	Cation	RCI	TCLP	PAH	TPH (CHLORIDE			Sampl	Sampl	
BGT	9/6/11	14:41	59533	Solid	Sludge Aqueous	402			->	$\langle \rangle$	1							X			X	2	
				Soli Solid	Sludge Aqueous		Y																
				Soil Solid	Sludge Aqueous																		
			1.4.6.6	Soil Solid	Sludge Aqueous																		
				Solid Solid	Sludge Aqueous		1																
				Soil Solid	Sludge Aqueous		1.11																
	G. 3			Solid Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous													-					
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous									1									
lelinquished by: (Sig	nature)	S	4		Date 7/6/11	Time /6:00	F	Rece	ived b	y (Si	gnatur	\$X	Co	nai	the	R				bate 6-11		me :03	
telinquished by: (Sig	nature)	c			191		the second second				gratur	and the start of		Ì					•				
lelinquished by: (Sig	nature)	-		1			F	Rece	ived t	y: (Si	gnatur	e)											
/	5		-11		5	en			_	-	-	h											



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 11, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX

OrderNo.: 1511111

Dear Emilee Skyles:

RE: CoPC Huerfanito 79M

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/4/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1511111 Date Reported: 11/11/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: BGT S-1

 Project: CoPC Huerfanito 79M
 Collection Date: 11/3/2015 12:40:00 PM

 Lab ID: 1511111-001
 Matrix: SOIL
 Received Date: 11/4/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst:	том
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2015 12:00:00 PM	22177
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	36	30		mg/Kg	20	11/9/2015 2:10:44 PM	22248
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S				Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2015 4:58:56 PM	22193
Surr: DNOP	133	70-130	S	%REC	1	11/6/2015 4:58:56 PM	22193
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2015 1:07:39 AM	22178
Surr: BFB	85.1	75.4-113		%REC	1	11/6/2015 1:07:39 AM	22178
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.048		mg/Kg	1	11/6/2015 1:07:39 AM	22178
Toluene	ND	0.048		mg/Kg	1	11/6/2015 1:07:39 AM	22178
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2015 1:07:39 AM	22178
Xylenes, Total	ND	0.096		mg/Kg	1	11/6/2015 1:07:39 AM	22178
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	11/6/2015 1:07:39 AM	22178

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 6	
	ND	ND Not Detected at the Reporting Limit		Sample pH Not In Range	Fage 1 01 0	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix				

WO#: 1511111 11-Nov-15

Hall Environmental Analysis Laboratory, Inc.

Client: Project:		s Environmental Huerfanito 79M						-		
Sample ID Client ID:	MB-22248 PBS	SampType: Batch ID:			tCode: EPA Me RunNo: 30129	ethod 30	0.0: Anion	s		
Prep Date:	11/9/2015	Analysis Date:			SegNo: 917812	2 1	Inits: mg/k	a		
Analyte		Result PQ		SPK Ref Val			HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1	.5					12.	Sec. Mark	1
Sample ID	LCS-22248	SampType:	LCS	Tes	tCode: EPA Me	ethod 30	0.0: Anion	s		
Client ID:	LCSS	Batch ID:	22248	F	RunNo: 30129					
Prep Date:	11/9/2015	Analysis Date:	11/9/2015	S	SeqNo: 917821	U	Inits: mg/M	g		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC Low	Limit I	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1	.5 15.00	0	90.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511111 11-Nov-15

	Environmental Huerfanito 79M	
Sample ID MB-22177	SampType: MBLK	TestCode: EPA Method 418.1: TPH
Client ID: PBS	Batch ID: 22177	RunNo: 30033
Prep Date: 11/4/2015	Analysis Date: 11/5/2015	SeqNo: 914957 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20	
Sample ID LCS-22177	SampType: LCS	TestCode: EPA Method 418.1: TPH
Client ID: LCSS	Batch ID: 22177	RunNo: 30033
Prep Date: 11/4/2015	Analysis Date: 11/5/2015	SeqNo: 914958 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 114 83.6 116
Sample ID LCSD-22177	SampType: LCSD	TestCode: EPA Method 418.1: TPH
Client ID: LCSS02	Batch ID: 22177	RunNo: 30033
Prep Date: 11/4/2015	Analysis Date: 11/5/2015	SeqNo: 914959 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 112 83.6 116 1.27 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511111 11-Nov-15

	Animas Environme CoPC Huerfanito 7											
Sample ID MB-2219 Client ID: PBS Prep Date: 11/5/20	Batc	SampType: MBLK Batch ID: 22193 Analysis Date: 11/6/2015			tCode: E RunNo: 3 SeqNo: 9	0056	od 8015M/D: Diesel Range Organics Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (D Surr: DNOP	RO) ND 11	10	10.00		107	70	130		Test.			
Sample ID LCS-221 Client ID: LCSS Prep Date: 11/5/20	Batc	Type: LC h ID: 22 Date: 11	193	F	tCode: E RunNo: 3 SeqNo: 9	0056	8015M/D: Di Units: mg/F		e Organics			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (D Surr: DNOP	RO) 55 4.8	10	50.00 5.000	0	109 95.6	57.4 70	139 130					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 6

51.5

WO#: 1511111 11-Nov-15

Hall Environmental Analysis Laboratory, Inc.

	s Environmental Huerfanito 79M		
Sample ID MB-22178 Client ID: PBS Prep Date: 11/4/2015	SampType: MBLK Batch ID: 22178 Analysis Date: 11/5/2015	TestCode: EPA Method 8015D: Gasoline Range RunNo: 30022 SeqNo: 915129 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLir	mit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 850 1000	84.9 75.4 113	
Sample ID LCS-22178 Client ID: LCSS Prep Date: 11/4/2015	SampType: LCS Batch ID: 22178 Analysis Date: 11/5/2015	TestCode: EPA Method 8015D: Gasoline Range RunNo: 30022 SeqNo: 915130 Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLir	nit Qual
Gasoline Range Organics (GRO) Surr: BFB	25 5.0 25.00 930 1000	0 98.3 79.6 122 92.7 75.4 113	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511111 11-Nov-15

	Animas Environmental CoPC Huerfanito 79M																
Sample ID MB-22178	D MB-22178 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles											
Client ID: PBS	Batc	h ID: 22	178	F	RunNo: 3	0022											
Prep Date: 11/4/2015	Analysis I	Date: 1	1/5/2015	S	SeqNo: 9	15186	Units: mg/h										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	ND	0.050				1.1			12.2	1-							
Toluene	ND	0.050															
Ethylbenzene	ND	0.050															
Xylenes, Total	ND	0.10															
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120										
Sample ID LCS-22178	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	1	200							
Client ID: LCSS	Batc	h ID: 22	178	F	RunNo: 3	0022											
Prep Date: 11/4/2015	Analysis [Date: 1	1/5/2015	5	SeqNo: 9	15187	Units: mg/k	٢g									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	1.0	0.050	1.000	0	100	80	120										
Toluene	0.98	0.050	1.000	0	97.7	80	120										
Ethylbenzene	1.0	0.050	1.000	0	101	80	120										
Kylenes, Total	3.0	0.10	3.000	0	101	80	120										
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120										

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 6 of 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albua TEL: 505-345-3975 (Website: www.hal	4901 Hawk querque, NM FAX: 505-34	tins NE 87109 Samp 5-4107	ble Log-In Cł	neck List
Client Name: Animas Environmental	Work Order Number:	1511111		RcptNo:	1
Received by/date:	11/04/15				
Logged By: Lindsay Mangin 1	1/4/2015 8:00:00 AM		Andythe		
Completed By: Lindsay Mangin 1	1/4/2015 9:00:29 AM		Julythe		
Reviewed By: Da	1/04/15		U		
hain of Custody	10111				
1. Custody seals intact on sample bottles?		Yes 🗆	No 🗆	Not Present 🛃	
2. Is Chain of Custody complete?		Yes 🐼	No 🗆	Not Present	
3. How was the sample delivered?		Courier	2.1		
Log In					
4. Was an attempt made to cool the samples?		Yes 🐼	No 🗆		
		100 110			
5. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🛃	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🛃	No 🗆		
7. Sufficient sample volume for indicated test(s)?	7	Yes 🛃	No 🗆		
8. Are samples (except VOA and ONG) properly	preserved?	Yes 🛃	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🛃		
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials 🛃	
11. Were any sample containers received broken	?	Yes	No 🛃		
			_	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🛃	No 🗆	for pH: (<2 c	or >12 unless not
13. Are matrices correctly identified on Chain of C	Custody?	Yes 🛃	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🛃	No 🗆		
15. Were all holding times able to be met?		Yes 🛃	No 🗆	Checked by:	
(If no, notify customer for authorization.)					
Special Handling (if applicable)					1.18
16. Was client notified of all discrepancies with th	is order?	Yes 🗆	No 🗔	NA 🛃	1 4 5 30
Person Notified:	Date:				1
By Whom:	Via:	eMail [Phone Fax	In Person	14412
Regarding:			and the second	Contractor of the Contractor	
Client Instructions:			Construction of the state of th	AND A DECOMPTONIC DE LA COMPTONICA DE LA COMPTONICIÓN DE LA COMPT	
17. Additional remarks:					
18. <u>Cooler Information</u>					
Cooler No Temp °C Condition Ser	al Intact Seal No	Seal Date	Signed By		
1 1.7 Good Yes					

The state state of the

-		÷
Page	1 of 1	ł

Chain-of-Custody Record Client: Animas Environmental Services, LLC			Turn-Around Time: X Standard					HALL ENVIRONMENTAL											
				Project Name:				ANALYSIS LABORATORY											
Mailing Ad	dress:	COA MAL	Dinan Ct					www.hallenvironmental.com											
	Mailing Address: 604 W Pinon St.				COPC Huerfanito 79M Project #:				4901 Hawkins NE - Albuquerque, NM 87109										
Farmington, NM 87401 Phone #: 505-564-2281				-				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
Phone #.	000-004	-2281										liarys	IS Rec	juest					
Email or Fax#: eskyles@animasenvironmental.com			Project Manag	ger.				1											
QA/QC Pac			Level 4 (Full Validation		E. Skyles				11.4°	RO)									
Accreditati	* ·	O Other		Sampler: S.	Glasses					8015 (GRO/DRO)									
	ype)			Sind alem	Action (-	0	200							or N		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING.	BTEX - 8021B	TPH - EPA 418.1	Chlorides - 300.0	TPH- EPA 801							Air Bubbles (Y or N)		
11-3-15	1240	SOIL	BGT S-1	2 - 4 oz.	cool	-001	x	X	x	x		1				-			
																+			
				Part Part	NA LAND														
Date:	Time:	Relinquish	ed by:	Received by: , Date Time			Remarks: Bill to Conoco Phillips												
1/3/15	1734	An	TADen	1 Sht Wester 11/3/15 1734				WO # Supervisor: Jim Peace											
Date: 11/3/15	Time:	Relinquish	A Walte	Received by:	K nl	Date Time	Area: 21												

.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

