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.

	<b>RECEIVED</b> By kcollins at 8:45 am, Apr 05, 2016
Proposed Alternative Method Permit or Closure Plan Application	
Type of action:       Below grade tank registration         Permit of a pit or proposed alternative method         15352       Closure of a pit, below-grade tank, or proposed alternative method         Modification to an existing permit/or registration         Closure plan only submitted for an existing permitted or non-permitted pit, below         or proposed alternative method	ow-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative	e request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rule	
1.       Operator:       Burlington Resources Oil & Gas Company, LP       OGRID #: 14538       Constituents Exceed S         Address:       PO BOX 4289, Farmington, NM 87499       by 19.15.17.13 NMAC         Facility or well name:       Reese Mesa 13       separate C-141 under	. Please submit a
API Number:	BGT CLOSED PRIOR TO CLOSURE PLAN
<ul> <li>2.</li> <li>Pit: Subsection F, G or J of 19.15.17.11 NMAC</li> <li>Temporary: Drilling Workover</li> <li>Permanent Emergency Cavitation P&amp;A Multi-Well Fluid Management Low Chloride Drilling Fluid</li> </ul>	APPROVAL
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
Image: String-Reinforced         Liner Seams:       Image: Welded         Image: String-Reinforced         Volume:      bbl         Dimensions:       Lx Wx D	
3.	
<ul> <li>4.</li> <li>Alternative Method:</li> <li>Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for content of t</li></ul>	sideration of approval.
<ul> <li>s.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, institution or church)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li></ul>	school, hospital,

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)

#### 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 19.15.16.8 NMAC

## Variances and Exceptions:

7.

9

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:

□ 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.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting					
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank					
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				
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗋 Yes 🗌 No				
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No				
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No				
Below Grade Tanks					
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No				
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No				
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)					
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 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					
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				

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	□ 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			
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
Permanent Pit or Multi-Well Fluid Management Pit				
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	□ Yes □ No			
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
10. <b>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:</b> 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 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.12 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 Number: or Permit Number:				
In.       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 documents are 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 19.15.17.9 NMAC         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 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: or Permit Number:				

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			
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         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance 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         Erosion Control Plan         Cline Field Waste Stream Characterization         Cline Consure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
<u>Proposed Closure</u> : 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 Multi-well F	luid Management Pit			
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)				
Alternative Closure Method				
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.				
<sup>15.</sup> <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.				
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ 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			
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>				
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				
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				
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance				

<ul> <li>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No				
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>					
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>					
Within a 100-year floodplain.	Yes No				
- FEMA map	Yes No				
<ul> <li><sup>16.</sup></li> <li><u>On-Site Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>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.</i> <ul> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC</li> <li>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</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Usate Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)</li> <li>Soil Cover Design - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> </ul> </li> </ul>					
17. Operator Application Certification: I have provide a set of a set of my knowledge and half	of				
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.					
Name (Print): Title:					
Signature: Date:					
e-mail address: Telephone:					
18. OCD Approval: Permit Application (including closure plan) X Closure Plan (only) X OCD Conditions (see attachment)	See Front Page				
OCD Representative Signature: Oratle . Kelly Approval Date:7/12/2	2016				
Title:     Compliance Officer   OCD Permit Number:					
<ul> <li>19.</li> <li><u>Closure Report (required within 60 days of closure completion)</u>: 19.15.17.13 NMAC</li> <li>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.</li> <li></li></ul>					
20. Closure Method: Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo	on systems only)				
If different from approved plan, please explain.	op systems only)				

#### 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: Gotal Walka	Date: 4/1/16
e-mail address: <u>crystal.walker@cop.com</u> Telephone: (505) 326-9837	

# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Report

## Lease Name: Reese Mesa 13 API No.: 30-045-29957

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.

# 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.

3. 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.

4. 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.

5. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

6. 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 determined for the above referenced well.

7. 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.

- 8. 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 was not found.

9. 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 was not found.

10. 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 was 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.

11. 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 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. 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.

- 13. 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 (Included as an attachment)

District I Stat	o of Morel Marel			
1625 N French Dr., Hobbs, NM 88240	e of New Mexi rals and Natura			Form C-141 Revised October 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210	nservation Div			Submit 2 Copies to appropriate District Office in accordance
1000 Rio Brazos Road, Aztec, NM 87410	outh St. Franc			District Office in accordance with Rule 116 on back
	ta Fe, NM 875			side of form
Release Notifica	tion and Co	rrective A	ction	
30-045-29957	OPERATOR		🗌 Initial F	Report 🛛 🛛 Final Report
Name of Company Burlington Resources a Wholly	Contact	Kelsi H	larrington	
Subsidiary of ConocoPhillips CompanyAddress3401 E. 30 <sup>th</sup> St., Farmington, NM 8740	12 Telephone N	lo. <b>505-59</b>	0_3/03	
Facility Name Reese Mesa 13		e Gas Well A		9957
	mer Federal			e No. NM- 6892
LOCAT	TION OF REI	FASE		
Unit Letter Section Township Range Feet from the	North/South Line	Feet from the	East/West L	ine County
L 13 32N 08W 1455'	South	885'	West	San Juan
Latitude <u>36.97984</u>	4° N Longitud	e <u>-107.63234</u> °	W	e.
NATU	RE OF RELI	EASE		
Type of Release – Produced Water		elease - Unknow	vn	Volume Recovered –
Source of Release: Below Grade Tank	Date and Hou Unknown	ir of Occurrence		Date and Hour of Discovery 5/10/11
Was Immediate Notice Given?	If YES, To W	/hom?		
By Whom?	Date and Hou			
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse.		
☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.*				
If a watercourse was impacted, Describe Fully."				
Describe Cause of Problem and Remedial Action Taken.* Below	grade tank clos	sure activities	•	
Describe Area Affected and Cleanup Action Taken.* The sample	e returned resu	Its below the	regulatory	standards for Benzene,
BTEX and Chlorides but above the regulatory stand	ard of 100 ppm	for TPH (116	ppm) using	USEPA Method 418.1,
confirming a release. However, as the closure stand I hereby certify that the information given above is true and comple				
regulations all operators are required to report and/or file certain rele	ease notifications an	nd perform correc	tive actions for	releases which may endanger
public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem			Sector and the sector sector sector and the sector se	
or the environment. In addition, NMOCD acceptance of a C-141 re				
federal, state, or local laws and/or regulations.		OIL CONS	SERVATIC	N DIVISION
Signature: Network		011 0011		
Printed Name: Kelsi Harrington	Approved by	District Supervise	or: Rel	Rell
Title: Environmental Consultant	Approval Dat			on Date:
Title: Environmental Consultant		<u>e. 10/11/1</u>		
E-mail Address: kelsi.g.harrington@conocophillips.con	Conditions of	Approval:		Attached
Date: 9/1/11 Phone: 505-599-3403				
Attach Additional Sheets If Necessary	TVI	naina	257	091011-
	1701	1294288	23 /	6100112
			5	WILLI'S
Attach Additional Sheets If Necessary				
			3	1992 10 NI DIST. 3 80
			in the second se	CONS. DIV.
			187	Oll was a way
			10	232828282



October 4, 2011

Project Number 92115-1694

Ms. Kelsi Harrington ConocoPhillips 3401 East 30<sup>th</sup> Street Farmington, New Mexico 87401

Phone: (505) 599-3403

# RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE REESE MESA #13 (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington:

Enclosed please find the field notes and analytical results for confirmation sampling activities performed at the Reese Mesa #13 (hBr) well site located in Section 13, Township 32 North, Range 8 West, San Juan County, New Mexico. A brief site assessment was conducted and the regulatory standards were determined to be 5000 ppm TPH and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. Upon Envirotech personnel's arrival on May 10, 2011, one (1) five (5)-point composite sample was collected from beneath the former below grade tank; see attached *Field Notes*. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. Additionally, 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 benzene and BTEX using USEPA Method 8021 and for chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for all constituents analyzed. 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.

Crystal Delgai

Environmental Field Technician cdelgai@envirotech-inc.com

Enclosures: Field Notes Analytical Results

Cc: Client File 92115

Client: Conoco Phil	lips		<b>e</b> 5796	<b>OS) 632-0615</b> U.S. Hwy 64, Far	(800) 362-18 mington, NM 8	<b>1</b> 379 37401		No: 97115 : 191694
FIELD REPORT: SPI			VERIFIC				PAGE NO DATE STA DATE FIN	ARTED: 5/10/1
QUAD/UNIT: QTR/FOOTAGE:	SEC: 3			PM: NM	CNTY:S	ST: NM	ENVIRON	
EXCAVATION APPROX: DISPOSAL FACILITY: LAND USE:	NA	FT. X	LEASE:	FT. X REMEDIATI	MA ION METH	FT. DEEP OD: LAND OW	NA	ARDAGE: MA
CAUSE OF RELEASE: B6 SPILL LOCATED APPROXIM DEPTH TO GROUNDWATER	ATELY:	82	FT.	MATERIAL	FROM	): produ	ced u	vator
NMOCD RANKING SCORE: SOIL AND EXCAVATION DE	SCRIPTION	<u>v:</u>		URCE: 7 /00 PH CLOSURI	and the second se	NEAREST	SURFACE	WATER: 10 501
Soil is clay su	bSTANC	2						
SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
	2:16	1		5	20	4	200 29	116
SPILL PERIM	IETER			OVM RESULTS			SPILL PI	ROFILE
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						SM	101-31.4	1010
RAVEL NOTES:CA	LLED OUT			(	DNSITE:			

**3** 



# EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1694
Sample No.:	1	Date Reported:	5/19/2011
Sample ID:	BGT Composite	Date Sampled:	5/10/2011
Sample Matrix:	Soil	Date Analyzed:	5/10/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

	SAMA Research and Contraction Sector	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons	116	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: Reese Mesa #13 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

**Crystal Delgai** Printed

Re

Robyn Jones, EIT Printed



Cal. Date:	10-May-11		
Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100 200 500 1000	200	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

1

Crystal Delgai Print Name Korn Horne Review Review Robyn Jones, EIT 5/19/2011

Date

5/19/2011

Date



**Field Chloride** 

Client:	ConocoPhillips	Project #:	92115-1694
Sample No.:	1	Date Reported:	5/19/2011
Sample ID:	BGT Composite	Date Sampled:	5/10/2011
Sample Matrix:	Soil	Date Analyzed:	5/10/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact	~	

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	434	28.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992 Hach Company Quantab Titrators for Chloride

Comments: Reese Mesa #13 (hBr)

**Crystal Delgai** Printed

ASU Review

Robyn Jones, EIT



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Pro	ject#:		92115-1694
Sample ID:	BGT Composite	Dat	e Reported:		05-11-11
Laboratory Number:	58150	Dat	e Sampled:		05-10-11
Chain of Custody:	11717	Dat	e Received:		05-10-11
Sample Matrix:	Soil	Dat	te Analyzed:		05-11-11
Preservative:	Cool	Dat	te Extracted:		05-10-11
Condition:	Intact	Ana	alysis Requested:		BTEX
		Dilu	ution:		10
				Det.	
		Concentration		Limit	
Parameter		(ug/Kg)		(ug/Kg)	
Benzene		ND		0.9	
Toluene		ND		1.0	
Ethylbenzene		ND		1.0	
p,m-Xylene		ND		1.2	
o-Xylene		ND		0.9	
Total BTEX		ND			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	104 %
	1,4-difluorobenzene	93.6 %
	Bromochlorobenzene	94.1 %

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: BGT Closure/Reese Mesa #13

Analyst

Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 0511BBLK QA/QC 58150 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis: Dilution:		N/A 05-11-11 N/A N/A 05-11-11 BTEX 10	
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.	
Detection Limits (ug/L)		Accept. Rang		Conc	Limit	
Benzene	1.1723E+005	1.1747E+005	0.2%	ND	0.1	
Toluene	1.2599E+005	1.2624E+005	0.2%	ND	0.1	
Ethylbenzene	1.1477E+005	1.1500E+005	0.2%	ND	0.1	
p,m-Xylene	2.6499E+005	2.6552E+005	0.2%	ND	0.1	
o-Xylene	1.1122E+005	1.1144E+005	0.2%	ND	0.1	
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	Sample ND ND ND ND ND	Duplicate ND ND ND ND	%Diff. 0.0% 0.0% 0.0% 0.0% 0.0%	Accept Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9	
Benzene Toluene Ethylbenzene p,m-Xylene	ND ND ND ND	ND ND ND ND	0.0% 0.0% 0.0% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	ND ND ND ND ND	ND ND ND ND	0.0% 0.0% 0.0% 0.0% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	ND ND ND ND Sample	ND ND ND ND	0.0% 0.0% 0.0% 0.0% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9 Accept Range	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene	ND ND ND ND Sample ND	ND ND ND ND ND Amount Spiked 500	0.0% 0.0% 0.0% 0.0% Spiked Sample 501	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	ND ND ND ND ND Sample ND ND	ND ND ND ND ND S00 500	0.0% 0.0% 0.0% 0.0% Spiked Sample 501 515	0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100% 103%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150 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 Detectors, SW-846, USEPA December 1996.

QA/QC for Samples 58139, 58150 Comments: 1 n Analyst

Review



# Chloride

Client:	ConocoPhillips	Project #:	92115-1694	
Sample ID:	<b>BGT</b> Composite	Date Reported:	05/11/11	
Lab ID#:	58150	Date Sampled:	05/10/11	
Sample Matrix:	Soil	Date Received:	05/10/11	
Preservative:	Cool	Date Analyzed:	05/11/11	
Condition:	Intact	Chain of Custody:	11717	

## Parameter

# Concentration (mg/Kg)

# **Total Chloride**

200

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:

**BGT Closure/Reese Mesa #13** 

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Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1885 lab@envirotech-inc.com envirotech-inc.com

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