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 <u>District IV</u> 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. Conta Ea NIM 07505

Form C-144 Revised June 6, 2013

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

	Santa Fe, NIVI 87505	to the appropriate NMOC	D District Office.
1E 2101E	t, Below-Grade Tank, or Method Permit or Closure P	lan Application	RECEIVED By OCD 3-4-15
☐ Closure of a pit, I☐ Modification to a	registration proposed alternative method pelow-grade tank, or proposed alternation n existing permit/or registration v submitted for an existing permitted or		v-grade tank,
Instructions: Please submit one application	on (Form C-144) per individual pit, below-	grade tank or alternative r	request
lease be advised that approval of this request does not relieve the nvironment. Nor does approval relieve the operator of its respons			
operator: ConocoPhillips Company			
Address: PO BOX 4289, Farmington, NM 87499			
Facility or well name: _Mudge B 100			
API Number: <u>30-045-34846</u> Oo	CD Permit Number:		
U/L or Qtr/Qtr _N (SESW) Section _21 _ Township 31N	Range 11W County: San Juan		
Center of Proposed Design: Latitude 36.88016700 N	Longitude <u>-108.99643600 -W</u>	_ NAD: ⊠1927 □ 1983	
Surface Owner: Federal State Private Tribal Tr	ust or Indian Allotment OCD NAD83	36.8801 107.997	02
2.			
☐ <u>Pit</u> : Subsection F, G or J of 19.15.17.11 NMAC			
Temporary: Drilling Workover			
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ M	lulti-Well Fluid Management L	ow Chloride Drilling Fluid	☐ yes ☐ no
Lined Unlined Liner type: Thicknessn	il 🗌 LLDPE 🗌 HDPE 🗌 PVC 🔲 Ot	ther	
☐ String-Reinforced			
Liner Seams:	Volume:bb	l Dimensions: Lx	Wx D
3. Subsection I of 19.15.17.11 NMAC	·		
Volume: 120 bbl Type of fluid:			
Tank Construction material: Metal	Troduced water		
☐ Secondary containment with leak detection ☐ Visible	gidawalls liner 6 inch lift and automatic or	verflow shut off	
	– 2.2		
Liner type: Thickness45 mil ☐ H			
Liner type: Thickness43hill Fil	Fre Trve Some		
4. Alternative Method:			
Submittal of an exception request is required. Exceptions m	ust be submitted to the Santa Fe Environme	ental Bureau office for cons	ideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to p	ermanent pits, temporary nits, and helow-o	rade tanks)	
Chain link, six feet in height, two strands of barbed wire institution or church)			school, hospital,
Four foot height, four strands of barbed wire evenly space	ed between one and four feet		
☐ Alternate. Please specify			

6. 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: 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.	
9. 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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; ☑ Data obtained from nearby wells	☐ 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
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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.91 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 19.15.17.10 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	9 NMAC 1.15.17.9 NMAC
II.	
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 deattached. 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: or Permit Number:	9.15.17.9 NMAC
Tromodoly Approved Design (attach copy of design) Att transfer.	

10	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deattached.	ocuments are
 ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 	
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan	
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan	
☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	_
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flu Alternative	aid 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) ☐ 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 a	nttached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 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 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.	ce material are lease refer to
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	

Page 4 of 6

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	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plants are compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Subsection E of 19.15.17.13 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. 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 Waste Material 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	.11 NMAC .15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	ief.
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: Approval Date: Approval Date:	Apr 24, 2015
Title: Environmental Specialst OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 7/19/13	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed.	ot complete this

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirer	report is true, accurate and complete to the best of my knowledge and nents and conditions specified in the approved closure plan.
Name (Print): Kenny Davis	Title: Staff Regulatory Technician
Signature:	Date: <u>12/3/14</u>
e-mail address: kenny.r.davis@conocophillips.com	Telephone: <u>505-599-4045</u>

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

(Without Reclamation)

Lease Name: Mudge B 100 API No.: 30-045-34846

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:

- 1. 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.
- 3. 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.
- 4. 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.



7. 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		
TPH	EPA SW-846 418.1	100		
Chlorides	EPA 300.1	250		

8. 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.

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.

- 10. 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 due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

11. 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. COPC was not aware that the original notification sent at the time of Permitting was not the only closure notification required.

ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

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

The 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.

13. 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.

14. 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.

- 15. 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)

Closure Documentation was not submitted within the 60 day requirement due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to ensure closure documentation is submitted with the 60 day time frame.



September 16, 2013

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

RE: Below Grade Tank Closure Report

Mudge B #100

San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Mudge B #100, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Mudge B #100 Legal Description – SE¼ SW¼, Section 21, T31N, R11W, San Juan County, New Mexico Well Latitude/Longitude – N36.88018 and W107.99704, respectively BGT Latitude/Longitude – N36.87993 and W107.96693, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2013

1.2 Depth to Groundwater Determination (NMAC 19.15.17.13 Table 1)

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated November 2006 reported the depth to groundwater at approximately 90 feet below ground surface (bgs). AES personnel further assessed the depth to water determination using topographical interpretation, Global Positioning

Durango, Colorado 970-403-3084

624 E. Comanche Farmington, NM 87401

505-564-2281

Crystal Tafoya Mudge B #100 BGT Closure Report September 16, 2013 Page 2 of 5

System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was between 50 and 99 feet bgs.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Ashcroft, CoP representative, on July 19, 2013, and on the same day, Heather Woods and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On July 19, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.1.3 Chlorides

Soil sample SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM were reported at 0.0 ppm in all samples. Field TPH concentrations ranged from 67.0 mg/kg in S-4 and S-5 up to 84.7 mg/kg in S-1. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Mudge B #100 BGT Closure, July 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
	NMOCD A (NMAC 19.15.17.	Action Level 13 Table 1)	an est	2,500	600*
S-1	7/19/13	0.5	0.0	84.7	NA
S-2	7/19/13	0.5	0.0	75.2	NA
S-3	7/19/13	0.5	0.0	82.0	NA
S-4	7/19/13	0.5	0.0	67.0	NA
S-5	7/19/13	0.5	0.0	67.0	NA
SC-1	7/19/13	0.5	0.0	NA	40

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13H(2); NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and 10 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Mudge B #100 BGT Closure, July 2013

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13 Table 1)		10	50	1,0	000	600*	
SC-1	7/19/2013	0.5	<0.050	<0.25	<5.0	<10	<30

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13H(2); NA - not analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1. Field TPH concentrations were below the NMOCD action level of 2,500 mg/kg, with the highest concentration reported in S-1 with 84.7 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 1,000 mg/kg, and benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 600 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Mudge B #100.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

David Reese

Environmental Scientist

David of Rese

Crystal Tafoya Mudge B #100 BGT Closure Report September 16, 2013 Page 5 of 5

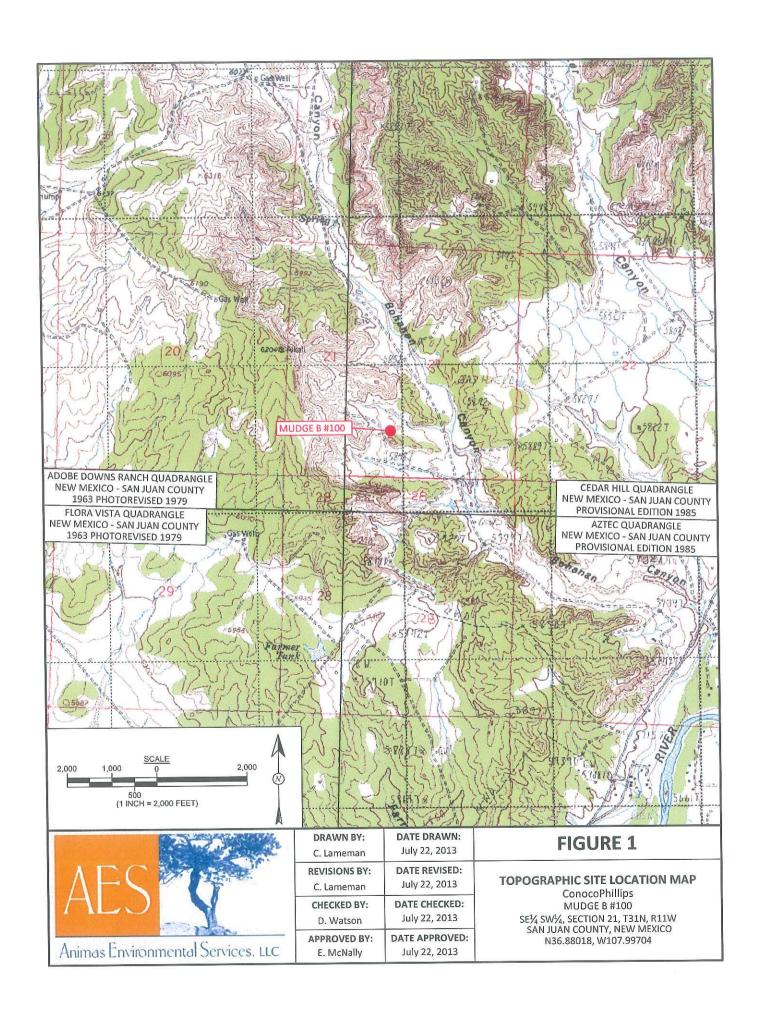
Elizabeth V MeNelly

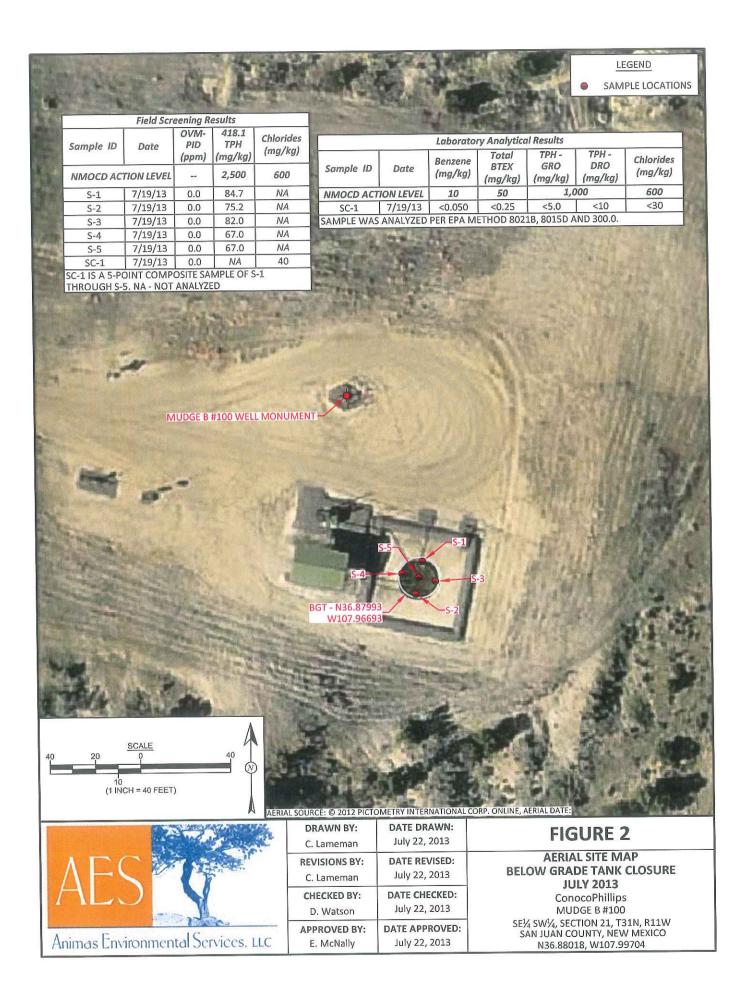
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2013 AES Field Screening Report 071913 Hall Analytical Report 1307915

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Mudge B #100\Mudge B #100 BGT Closure Report 091613.docx





AES Field Screening Report

Client: ConocoPhillips

Project Location: Mudge B #100

624 E. Comanche Farmington, NM 87401 505-564-2281

Durango, Colorado 970-405-5084

Animas Environmental Services, LLC

www.animasenvironmental.com

Date: 7/19/2013

Matrix: Soil

TPH	Analysts	Initials	HW	HW	HW	НМ	HW	
	Ans	ï.						
		DF	Н	1	П	1	Н	oH.
	TPH PQL	(mg/kg)	20.0	20.0	20.0	20.0	20.0	Not Analyzed for TPH.
	Field TPH*	(mg/kg)	84.7	75.2	82.0	67.0	67.0	Not,
	Analysis	Time	12:34	12:36	12:38	12:40	12:42	
i.	Chloride	(mg/kg)	NA	NA	NA	NA	NA	40
	OVM	(mdd)	0.0	0.0	0.0	0.0	0.0	0.0
	Samule	Location	North	South	Fast	West	Center	Composite
	Time of	Collection	12:00	12:01	12.02	12.03	12:04	12.06
	مونئوهالور			7/19/2013	7/19/2013	7/19/2013	7/19/2013	7/19/2013
		Cl alumes	7.7	7.	300	50	† L	55

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Dilution Factor

Not Detected at the Reporting Limit

Not Analyzed

Practical Quantitation Limit

PQL N AN

Analyst:

*Field TPH concentrations recorded may be below PQL.

Report Finalized: 07/19/13



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

July 23, 2013

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071

FAX

RE: COP Mudge B #100

OrderNo.: 1307915

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/20/2013 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 www.hallenvironmental.com 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1307915

Date Reported: 7/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: COP Mudge B #100

1307915-001 Lab ID:

Client Sample ID: SC-1

Collection Date: 7/19/2013 12:06:00 PM

Received Date: 7/20/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			Analys	:: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 12:29:55 PN	8486
Surr: DNOP	84.9	63-147	%REC	1 7/22/2013 12:29:55 PM	8486
EPA METHOD 8015D: GASOLINE RAI	NGE			Analys	t: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 7/22/2013 11:06:47 AN	1 R12092
Surr: BFB	93.7	80-120	%REC	1 7/22/2013 11:06:47 AM	1 R12092
EPA METHOD 8021B: VOLATILES				Analys	t: DAM
Benzene	ND	0.050	mg/Kg	1 7/22/2013 11:06:47 AM	/ R12092
Toluene	ND	0.050	mg/Kg	1 7/22/2013 11:06:47 AM	/ R12092
Ethylbenzene	ND	0.050	mg/Kg	1 7/22/2013 11:06:47 Al	/I R12092
Xylenes, Total	ND	0.10	mg/Kg	1 7/22/2013 11:06:47 Al	
Surr: 4-Bromofluorobenzene	96.8	80-120	%REC	1 7/22/2013 11:06:47 Al	и R12092
EPA METHOD 300.0: ANIONS				Analys	st: JRR
Chloride	ND	30	mg/Kg	20 7/22/2013 11:54:24 Al	VI 8491

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Not Detected at the Reporting Limit $Page\ 1\ of\ 6$ Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307915

23-Jul-13

Client:

Animas Environmental

Project:

COP Mudge B #100

Sample ID MB-8491

SampType: MBLK Batch ID: 8491

TestCode: EPA Method 300.0: Anions

Client ID: PBS

RunNo: 12115

Prep Date: 7/22/2013

Analysis Date: 7/22/2013

Units: mg/Kg

HighLimit

SeqNo: 344616

%RPD

Analyte Chloride

Result PQL 1.5 ND

Sample ID LCS-8491

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 8491

RunNo: 12115

Units: mg/Kg

Prep Date: 7/22/2013

Analysis Date: 7/22/2013

SeqNo: 344617

Analyte

SPK value SPK Ref Val %REC LowLimit PQL 1.5

93.4

HighLimit

RPDLimit %RPD

RPDLimit

Qual

Qual

Chloride

15.00

0

SPK value SPK Ref Val %REC LowLimit

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Sample pH greater than 2 for VOA and TOC only. P

Reporting Detection Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

10

10.00

ND

9.0

WO#:

147

63

1307915

23-Jul-13

Client:

Animas Environmental

Project:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

COP Mudge B #100

J.	5080									
Sample ID LCS-8486	SampType: LCS			TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 8486			F	RunNo: 12083					
Prep Date: 7/22/2013	Analysis D	ate: 7/	22/2013	8	SeqNo: 3	43712	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	44	10	50.00	0	88.0	77.1	128			
Diesel Range Organics (DRO) Surr: DNOP	4.2	10	5.000		84.9	63	147			
Sample ID MB-8486	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batcl	n ID: 84	86	F	RunNo: 1	2083				
Prep Date: 7/22/2013	Analysis D	Date: 7	122/2013	5	SeqNo: 3	43713	Units: mg/l	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

89.5

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307915 23-Jul-13

Client:

Animas Environmental

Project:

COP Mudge B #100

0	In	MB-8464
Sample	11)	WIPS-8464

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 8464

RunNo: 12092

7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344247

Units: %REC

120

HighLimit

Prep Date:

%REC LowLimit %RPD

RPDLimit Qual

Analyte Surr: BFB Result 930 SPK value SPK Ref Val 1000

92.6

Sample ID LCS-8464

Client ID: LCSS

SampType: LCS Batch ID: 8464

RunNo: 12092

TestCode: EPA Method 8015D: Gasoline Range

Prep Date:

Analysis Date: 7/22/2013 7/19/2013

SeqNo: 344248

Units: %REC

Analyte

PQL Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Qual

S

Qual

Surr: BFB

1000

1200

1000

101 TestCode: EPA Method 8015D: Gasoline Range

120

%RPD

%RPD

Sample ID 1307864-002AMS

Client ID: BatchQC SampType: MS Batch ID: 8464

80

RunNo: 12092

Units: %REC

Prep Date:

7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344249

126

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit 80 120 **RPDLimit** Qual S

Surr: BFB

Sample ID 1307864-002AMSD

SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range RunNo: 12092

80

LowLimit

Client ID:

BatchQC

Batch ID: 8464

Units: %REC

Prep Date:

7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344250

HighLimit

RPDLimit

Analyte

Result 1300 SPK value SPK Ref Val 934.6

934.6

LowLimit %REC

%RPD 120

Surr: BFB

Sample ID MB-8464

SampType: MBLK

POL

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R12092

RunNo: 12092

Prep Date:

Result

Units: mg/Kg

7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344474 %REC

HighLimit

RPDLimit %RPD

Analyte

Gasoline Range Organics (GRO) Surr: BFB

5.0 ND 930

PQL

1000

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-8464

Client ID: LCSS

SampType: LCS Batch ID: R12092

RunNo: 12092

926

Prep Date: 7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344475

Units: mg/Kg

136

120

120

Analyte Gasoline Range Organics (GRO)

Surr: BFB

PQL Result

27

1000

SPK value SPK Ref Val 5.0 25.00

1000

%REC

110

101

0

HighLimit LowLimit 62.6

80

80

%RPD

RPDLimit Qual

R

- Qualifiers:
 - Value exceeds Maximum Contaminant Level.
- Value above quantitation range E Analyte detected below quantitation limits

RPD outside accepted recovery limits

J 0 RSD is greater than RSDlimit

- Analyte detected in the associated Method Blank
- Sample pH greater than 2 for VOA and TOC only.
- P Reporting Detection Limit

Holding times for preparation or analysis exceeded

Page 4 of 6 Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

1307915 WO#: 23-Jul-13

Page 5 of 6

Client:

Animas Environmental

COD Mar	daa B #100			
Project: COP Muc	dge B #100			
Sample ID MB-8464	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 8464	RunNo: 12092		
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344510	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.96 1.000	96.3 80	120	
Commis ID, 1 00 9464	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Sample ID LCS-8464	Batch ID: 8464	RunNo: 12092		
Client ID: LCSS Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344511	Units: %REC	
		SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Analyte Surr: 4-Bromofluorobenzene	Result PQL SPK value 1.0 1.000	100 80	120	
			LOCAD. Volcailos	
Sample ID 1307864-001AMS	SampType: MS	TestCode: EPA Method	1 8021B: Volatiles	
Client ID: BatchQC	Batch ID: 8464	RunNo: 12092	IL WEDEO	
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344512	Units: %REC	
Analyte	recount real critical	SPK Ref Val %REC LowLimit		RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.96 0.9363	102 80	120	
Sample ID 1307864-001AM	SD SampType: MSD	TestCode: EPA Metho	d 8021B: Volatiles	
Client ID: BatchQC	Batch ID: 8464	RunNo: 12092		
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344513	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	t HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.95 0.9355	101 80) 120 0	0
Sample ID MB-8464	SampType: MBLK	TestCode: EPA Metho	d 8021B: Volatiles	
Client ID: PBS	Batch ID: R12092	RunNo: 12092		
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344523	Units: mg/Kg	
	2727 2240 1	SPK Ref Val %REC LowLim	t HighLimit %RPD	RPDLimit Qual
Analyte Benzene	Result PQL SPK value	, or terror var.		
Toluene	ND 0.050			
Ethylbenzene	ND 0.050			
Xylenes, Total	ND 0.10	constants WA		
Surr: 4-Bromofluorobenzene	0.96 1.00	0 96.3 8	0 120	
Sample ID LCS-8464	SampType: LCS	TestCode: EPA Metho	od 8021B: Volatiles	
Client ID: LCSS	Batch ID: R12092	RunNo: 12092		
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344524	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLim	it HighLimit %RPD	RPDLimit Qual
Benzene	1.0 0.050 1.00		0 120	
Toluene	1.0 0.050 1.00	0 0 101 8	120	

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only. P

Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307915

23-Jul-13

Client:

Animas Environmental

Project:

COP Mudge B #100

Sample ID LCS-8464	100000000000000000000000000000000000000	ype: LC					8021B: Volat	iles		
Client ID: LCSS	Batch	1 ID: R1	2092	R	tunNo: 1	2092				
Prep Date: 7/19/2013	Analysis D	ate: 7/	22/2013	S	SeqNo: 3	44524	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

eceived by/date: AT 07/20	1/3				
	7/20/2013 10:20:00 AM		ann Il-		
	7/20/2013		anne New		
			Cina Ji		
eviewed By: A 07/20	// 3				
hain of Custody		Yes \square	No 🗆	Not Present ✓	
1. Custody seals intact on sample bottles?		Yes ☑ Yes ☑	No 🗆	Not Present	
2. Is Chain of Custody complete?			NO L	11011110000	
3. How was the sample delivered?		Courier			
.og In					
4. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a tempera	ure of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated to	est(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) pro		Yes 🗹	No 🗆		
Was preservative added to bottles?		Yes 🗆	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
11. Were any sample containers received to	proken?	Yes 🗌	No 🗹	# of preserved	
				bottles checked	
12. Does paperwork match bottle labels?		Yes 🔽	No L	for pH: (<2 or	>12 unless not
(Note discrepancies on chain of custod		Yes 🗹	No 🗆	Adjusted?	
13. Are matrices correctly identified on Cha		Yes 🗹	No 🗆		
14. Is it clear what analyses were requeste 15. Were all holding times able to be met?		Yes 🗸	No 🗆	Checked by:	
(If no, notify customer for authorization)				
Special Handling (if applicable)					
16. Was client notified of all discrepancies	with this order?	Yes 🗆	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail [] Phone 🗌 Fax	☐ In Person	
Regarding:		do	manage of the ordinary of the terminary	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Park of
Client Instructions:	and the second s				
Region to the second					
17. Additional remarks:					

Ö	-uain-	of-Cu	usto	Chain-of-Custody Record	Tum-Around Time:	Time:				I	AL	Ш	Ş	IR	Z	HALL ENVIRONMENT	È	7	127
Client	nimas	Enula	COMM	Animas Environmental Seculces	□ Standard	M Rush Same	Same Day			∢ '	NALYSIS LABC	Vident			OM EOS	ANALYSIS LABORATORY	9	N.	
Mailing	Mailing Address:		200		, do	100 # # 101	6	4	4901 Hawkins NE - Albuquerque, NM 87109	awkir	s NE	- Alb	ndne	dne,	NM 8	7109			
	Forma a bon	624 E	JE. Cema	(STUD)	Project #:	Project #:			Tel. 505-345-3975	5-34	-397	200	ax 5	So5-345- Regnest	Fax 505-345-4107	7			
Dhone #	10 A	10	-22	/20				(4			-		(1		-		F	_	
email or Fax#:	Fax#:				Project Manager:	ger:						•	os'	s,g	17/2		-	_	
QA/QC Package:	ackage: lard		<u>د</u> 0	□ Level 4 (Full Validation)	D. Watson	Vo					STATE OF THE		O ₂ ,PO	082 PC					(
Accreditation INFL AP	ation	□ Other	er		Sampler: H.	Woods						S	N'EON						V or N
EDD (Type)	(Type)				深。	// Supposition						siel	(Q)	2012/201) se
Date	Time	Matrix	3 Nr. 50 5 11	Sample Request ID	Container Type and #	Preservative Type	S TO S	BTEX + M	BTEX + M	teM) H9T	EDB (Wet	83) s'HAY N 8 AЯЭЯ	귀) snoinA	8081 Pes	V) 80928 8270 (Se				Air Bubbl
	_		V.	0-1	MEDER KIN	Meoth	100-	×	8		1	-	×		+	1	1	+	1
+114/13	mor)	100				108					1	+		+		1	+	+	1
												+		+	+			+	1
														+	+		+	+	+
											+	+		1	-			-	-
									-			\vdash						H	\vdash
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7/19/13	Time:	Relinquished by:	ished by	7. M. Wood	Received by:	anpelley	3	3 4	Wo: 10347467	24.0	4.0	Dono	500	Ordered .	UD: B		ENALE Bruce Asheroff	Shero	女
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1161	[19 13 174 If necessary,	r, samples st	Submittee	5 174 / MINE DATE AND CONTROLLED WIND TO BE SUBCONTRACTED to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the enalytical report.	subcontracted to other	accredited laboratori	es. This serves as notice of the	idissoq sir	lity. Any	oo-qns	ntracted	data will	be clea	rly notal	ed on th	e analyti	cal repo	ᡤ	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

side of form

Release Notificatio	n and Corrective A	ction				
	OPERATOR Initial Report Final Report					
Name of Company ConocoPhillips Company	Contact Kenny Davis					
Address 3401 East 30 th St, Farmington, NM	Telephone No.(505) 599-4045					
Facility Name: Mudge B 100	Facility Type: Gas Well					
Surface Owner Federal Mineral Owner	Federal	Lease N	o. SF-078096 —			
LOCATIO	N OF RELEASE					
Unit Letter Section Township Range Feet from the North	/South Line Feet from the	East/West Line	County			
N 21 31N 11W 1068 South	2376	West	San Juan			
Latitude <u>36.8801670</u>	0 Longitude-107.99643600					
NATURE	OF RELEASE					
Type of Release BGT Closure Summary	Volume of Release N/A	E W. 100 E V. 100 E	ecovered N/A			
Source of Release: NONE	Date and Hour of Occurrenc	e N/A Date and I	Hour of Discovery N/A			
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A					
By Whom? N/A	Date and Hour N/A					
Was a Watercourse Reached?	If YES, Volume Impacting t	he Watercourse.				
N/A ☐ Yes ☒ No	N/A					
If a Watercourse was Impacted, Describe Fully.*						
N/A						
Describe Cause of Problem and Remedial Action Taken.*						
N/A						
Describe Area Affected and Cleanur Action Token *						
Describe Area Affected and Cleanup Action Taken.* 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						
public health or the environment. The acceptance of a C-141 report by	he NMOCD marked as "Final R	eport" does not reli	eve the operator of liability			
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with						
federal, state, or local laws and/or regulations.	does not reneve the operator of	responsibility for co	omphance with any other			
Todata, state, or rotal taris garactoris.	OIL CON	SERVATION	DIVISION			
Signature: Approved by District Supervisor:						
Printed Name: Kenny Davis	Approved by District Supervis	or:				
Title: Staff Regulatory Technician	Approval Date:	Expiration 1	Date:			
		I) weeks European See				
E-mail Address: Kenny.r.davis@conocophillips.com	Conditions of Approval:		Attached			
Date: 12/10/14 Phone: (505) 599-4045						



^{*} Attach Additional Sheets If Necessary



