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

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

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 to the appropriate NMOCD District Office.

_		
	Pit, Below-Grade Tank, or	
	Proposed Alternative Method Permit or Closure I	Plan Application
,	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternation Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or or proposed alternative method	ive method
	Instructions: Please submit one application (Form C-144) per individual pit, below	-grade tank or alternative request
	lease be advised that approval of this request does not relieve the operator of liability should operations result invironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable go	
	operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538 / 217817	
	Address: PO BOX 4289, Farmington, NM 87499	OIL CONS. DIV DIST. 3
	Facility or well name: ANGEL PEAK B 22	JAN 23 2017
	API Number:30-045-07489 OCD Permit Number:	
	U/L or Qtr/Qtr G Section 13 Township 28N Range 11W	County: San Juan
	Center of Proposed Design: Latitude _36.66526 <u>oN</u> Longitude107.95284 <u>oW</u> NAD:	□1927 🖾 1983
	Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
[2.	
	Pit: Subsection F, G or J of 19.15.17.11 NMAC	
	Temporary: ☐ Drilling ☐ Workover	
	Permanent Emergency Cavitation P&A Multi-Well Fluid Management	
	Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
	String-Reinforced	
	Liner Seams: Welded Factory Other Volume: bbl Din	nensions: Lx Wx D
	3.	
	Below-grade tank: Subsection I of 19.15.17.11 NMAC	
	Volume:bbl Type of fluid:Produced Water	
	Tank Construction material: Metal	
	Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic	overflow shut-off
	☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
	Liner type: Thicknessmil ☐ HDPE ☐ PVC ☒ Other <u>Unspecified</u>	
	4.	
	Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environm	nental Bureau office for consideration of approval.
	5.	
	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-	grade tanks)

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

institution or church)

Alternate. Please specify

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

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)	
7.	-
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	
8.	
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 acceptions.	ntable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
Conoral siting	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	Yes No
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	⊠ 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	☐ Yes ☐ No
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	res 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)	☐ Yes ☐ No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	1cs 140
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).	☐ Yes ☑ No
- Topographic map; Visual inspection (certification) of the proposed site	
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	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 havigantal fact of a graing on a private demantic fresh water well used by least the first have believed.	
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								
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								
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								
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 19.15.17.9 Natructions: 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 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC							
II. Multi Well Fluid Management Bit Chealdist. Subsection D of 10 15 17 0 NMAC								
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 do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC								
Previously Approved Design (attach copy of design) API Number: or Permit Number:								

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are							
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment	×							
 □ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC □ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC □ Quality Control/Quality Assurance Construction and Installation Plan □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan □ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan □ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 								
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 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) ☐ In-place Burial ☐ On-site Trench Burial ☐ 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. □ 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								
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. In 19.15.17.10 NMAC for guidance.								
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA							
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No							
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 ake (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								
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site								
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								

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	
Within a 100-year floodplain.	Yes No
- FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	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 believes	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1000 OCD Permit Number:	19017
19.	
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 not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
☐ Closure Completion Date: 12/29/16	
20.	on systems only)
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-logical of the different from approved plan, please explain.	op systems omy)

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is belief. I also certify that the closure complies with all applicable closure requirements and	
Name (Print) Christine Brock Title: Regulatory Specialist	
Signature: Schristife Re10CK	Date: ///7//7
e-mail address: christine.com@cop.com Telephone: (505) 326-9775	

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

Lease Name: ANGEL PEAK B 22

API No.: 30-045-07489

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 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.

2. 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 not 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 is attached.

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 sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

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 be 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)

Brock, Christine

From:

Walker, Crystal

Sent:

Tuesday, December 27, 2016 7:31 AM

To:

Cc:

Brock, Christine; Cory Smith (cory.smith@state.nm.us); Vanessa Field

(Vanessa.Fields@state.nm.us); brandon.powell@state.nm.us

(vanessa.Fields@state.nm.us); brandon.poweii@state.nm.u

Whitney Thomas - BLM (l1thomas@blm.gov); mjoe@blm.gov; Payne, Wendy F; Trujillo, Fasho D;

Busse, Dollie L; Walker, Crystal

Subject:

RE: ANGEL PEAK B 22 - 72 Hour BGT Closure Notification - DATE CHANGE

Good morning,

The Anticipated State Date for this BGT has been moved to THURSDAY, DECEMBER 29TH at 9:00AM.

Please contact me at any time if you have any questions or concerns.

Thank you, Crystal

From: Brock, Christine

Sent: Wednesday, December 21, 2016 11:05 AM

To: Cory Smith (cory.smith@state.nm.us) <cory.smith@state.nm.us>; Vanessa Field (Vanessa.Fields@state.nm.us)

<Vanessa.Fields@state.nm.us>; brandon.powell@state.nm.us

Cc: Whitney Thomas - BLM (I1thomas@blm.gov) < I1thomas@blm.gov>; mjoe@blm.gov; Payne, Wendy F

<Wendy.F.Payne@conocophillips.com>; Trujillo, Fasho D <Eufracio.D.Trujillo@conocophillips.com>; Walker, Crystal

<Crystal.Walker@conocophillips.com>; Busse, Dollie L <Dollie.L.Busse@conocophillips.com>

Subject: ANGEL PEAK B 22 - 72 Hour BGT Closure Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Tuesday, 12/27/2016 at approximately 9:00 a.m.

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name:

Angel Peak B 22

API#:

3004507489

Location:

Unit G (SWNE), Section 13, T28N, R11W

Footages:

1630' FNL & 1850' FEL

Operator:

Burlington Resources

Surface Owner: BLM (Lease #SF-047017-B)

Reason:

P&A'd 9/16/2016

Christine Brock
Regulatory Specialist
ConocoPhillips Company
505-326-9775
505-320-8485
Christine.Brock@cop.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office to

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

Name of Company Burlington Resources Address 3401 East 30 th St, Farmington, NM T	Telephone N Facility Typ FEDERAL	ristine Brock No.(505) 326- 9		al Report	\boxtimes	Final Report		
Address 3401 East 30 th St, Farmington, NM	Telephone N Facility Typ FEDERAL	No.(505) 326- 9	775					
	Facility Typ		175	Contact Christine Brock				
Tacinty Ivanic. Angel I can b 22	FEDERAL	c. Gas Well	Telephone No.(505) 326- 9775 Facility Type: Gas Well					
Surface Owner FEDERAL Mineral Owner F			API No	. 30-045-0	7489			
LOCATION								
	South Line North	Feet from the 1850	East/West Line East	County San Juan				
			Last	San Guan				
Latitude 36.66526 NATURE (e <u>-107.95284</u> EASE						
Type of Release	Volume of		Volume R	Recovered				
Source of Release	Date and H	lour of Occurrence	Date and	Hour of Disc	overy			
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To	Whom?						
By Whom?	Date and H							
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.* N/A								
Describe Cause of Problem and Remedial Action Taken.* No release was encountered during the BGT Closure.								
Describe Area Affected and Cleanup Action Taken.* N/A								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Signature: lemistere Brock	OIL CONSERVATION DIVISION							
Printed Name: Christine Brock	Approved by Environmental Specialist:							
Title: Regulatory Specialist A	Approval Date: E		Expiration I	Expiration Date:				
E-mail Address: christine.brock@cop.com Date: 1/14/17 Phone: (505) 326-9775	Conditions of Approval: Attached							

^{*} Attach Additional Sheets If Necessary

Animas Environmental Services, LLC



January 10, 2017

Lisa Hunter ConocoPhillips San Juan Business Unit (505) 326-9525

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

RE: Below Grade Tank Closure Report

Angel Peak B 22

San Juan County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (COPC) Angel Peak B 22, located in San Juan County, New Mexico. Tank removal was completed by COPC contractors on December 29, 2016, while AES was on site.

1.0 Site Information

1.1 Location

Site Name – Angel Peak B 22
Legal Description – SW¼ NE¾, Section 13, T28N, R11W, San Juan County, New Mexico
Well Latitude/Longitude – N36.66506 and W107.95264, respectively
BGT Latitude/Longitude – N36.66526 and W107.95284, respectively
Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2016

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 0 based on the following factors:

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 206 Durango, CO 81301 970-403-3084

- Depth to Groundwater: A State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division, Form C-144 dated July 21, 2008, reported the depth to groundwater at 150 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The tank location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to the San Juan River is located approximately 1,540 feet northeast of the location. The closest surface water is greater than 1,000 horizontal feet. (0 points).

1.3 BGT Closure Assessment

AES was initially contacted by Lisa Hunter of COPC on December 26, 2016, and on December 29, 2016, Corwin Lameman and Sam Glasses of AES mobilized to the location. AES personnel collected one 5-point soil sample composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner.

2.0 Soil Sampling

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

A portion of BGT SC-1 was utilized for field screening of volatile organic compound (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 sample BGT SC-1 was also analyzed in the field for total petroleum hydrocarbons (TPH) per U.S. Environmental Protection Agency (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 BGT 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

Soil sample BGT SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH as Gasoline Range Organics (GRO), Motor Oil Range Organics (MRO), and Diesel Range Organics (DRO) per USEPA Method 8015M/D;
- TPH per USEPA Method 418.1; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and presented on Figure 2. The AES Field Sampling Report and the laboratory analytical report are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results Angel Peak B 22 BGT Closure. December 2016

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action I	Level (NMAC 19.	15.17.13E)		100	250
BGT SC-1	12/29/16	0.5	0.0	<20.0	20

Table 2. Soil Laboratory Analytical Results Angel Peak B 22 BGT Closure, December 2016

Sample ID	Date Sampled	Depth (ft)	Benzene (8021) (mg/kg)	Total BTEX (8021) (mg/kg)	TPH – GRO (8015) (mg/kg)	TPH – DRO (8015) (mg/kg	TPH – MRO (8015) (mg/kg	TPH (418.1) (mg/kg)	Chlorides (300.0) (mg/kg)
	NMOCD Action (NMAC 19.15.		0.2	50		100		100	250
BGT SC-1	12/29/16	0.5	<0.017	<0.152	<3.4	<9.8	<49	<19	<30

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations in BGT SC-1 were below the NMOCD action level of 100 mg/kg, with a concentration reported at less than 20.0 mg/kg. Benzene and total BTEX concentrations were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Laboratory analytical results also reported TPH concentrations in BGT SC-1 (per USEPA Methods 8015 and 418.1) as below the NMOCD action levels. Chloride concentrations in BGT SC-1 were below the NMOCD action level of 250 mg/kg. Based on field sampling and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Angel Peak B 22.

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

Sincerely,

Victoria Giannola Project Manager

Putina Scanole

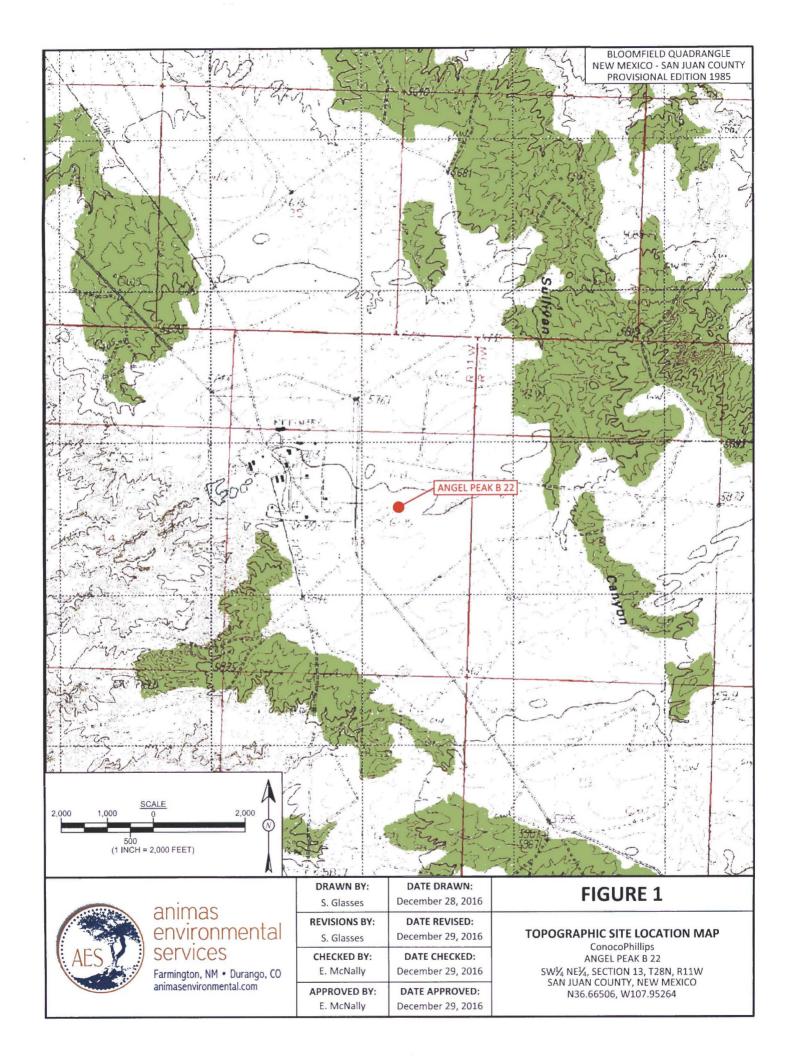
Elizabeth V McNelly

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, December 2016 AES Field Sampling Report 122916 Hall Analytical Report 1612E53

R:\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2017 Client Projects\ConocoPhillips\Angel Peak B 22\COPC Angel Peak B 22 BGT Closure Report 011017 EM VG EM.docx





SAMPLE LOCATIONS

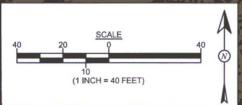
			34								
Field Sampling Results											
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)						
NA	NOCD ACTIO		100	250							
BGT SC-1	12/29/16	0.5	0.0	<20.0	20						
BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE.											

	The State of			4.7				a h literatura			
Laboratory Analytical Results											
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	TPH- MRO (mg/kg)	TPH 418.1 (mg/kg)	Chlorides (mg/kg)		
I	VMOCD ACT	TION LEVEL	0.2	50		100		100	250		
BGT SC-1	12/29/16	0.5	<0.017	<0.152	<3.4	<9.8	<49	<19	<30		
SAMPLE WAS	SAMPLE WAS ANALYZED PER USEPA METHOD 8021B, 8015, 418.1 AND 300.0.										

BGT SC-1

BELOW GRADE TANK N36.66526, W107.95284

ANGEL PEAK B 22 WELL MONUMENT



AERIAL SOURCE: © 2016 GOOGLE EARTH PRO, AERIAL DATE: MARCH 15, 2015

DRAWN BY: DATE DRAWN:

animas environmental services Farmington, NM • Durango, CO animasenvironmental.com

S. Glasses	December 29, 2016
REVISIONS BY:	DATE REVISED:
S. Glasses	January 6, 2017
CHECKED BY:	DATE CHECKED:
E. McNally	January 6, 2017
APPROVED BY:	DATE APPROVED: January 6, 2017

FIGURE 1

AERIAL SITE MAP BELOW GRADE TANK CLOSURE DECEMBER 2016

ConocoPhillips
ANGEL PEAK B 22
SW¼ NE¼, SECTION 13, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.66506, W107.95264

AES Field Sampling Report



Client: ConocoPhillips

Project Location: Angel Peak B 22

Date: 12/29/2016

Matrix: Soil

Sample	Collection D Date	Collection Time	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
BGT SC	1 12/29/2016	9:33	Composite	0.0	20	<20.0	9:55	20.0	1	SHG

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Amit Lersen fr.



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

January 05, 2017

Corwin Lameman Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: COPC Angel Peak B 22

OrderNo.: 1612E53

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/30/2016 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1612E53

Date Reported: 1/5/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: BGT SC-1

Project: COPC Angel Peak B 22

Collection Date: 12/29/2016 9:33:00 AM

Lab ID: 1612E53-001

Matrix: SOIL

Received Date: 12/30/2016 8:00:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	1/4/2017	29496
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	12/30/2016 3:28:25 PM	29482
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/4/2017 7:49:34 PM	29491
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/4/2017 7:49:34 PM	29491
Surr: DNOP	107	70-130	%Rec	1	1/4/2017 7:49:34 PM	29491
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	12/30/2016 10:55:22 AM	A SG39750
Surr: BFB	82.8	68.3-144	%Rec	1	12/30/2016 10:55:22 AM	A SG39750
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	12/30/2016 10:55:22 AM	A SB39753
Toluene	ND	0.034	mg/Kg	1	12/30/2016 10:55:22 AM	A SB39753
Ethylbenzene	ND	0.034	mg/Kg	1	12/30/2016 10:55:22 AM	A SB39753
Xylenes, Total	ND	0.067	mg/Kg	1	12/30/2016 10:55:22 AN	A SB39753
Surr: 4-Bromofluorobenzene	90.1	80-120	%Rec	1	12/30/2016 10:55:22 AN	M SB39753

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612E53

05-Jan-17

Client:

Animas Environmental

Project:

COPC Angel Peak B 22

Sample ID MB-29482

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

12/30/2016

Batch ID: 29482 Analysis Date: 12/30/2016 RunNo: 39774

Units: mg/Kg

Qual

Analyte Chloride

Result

ND

SPK value SPK Ref Val **PQL**

SeqNo: 1246699 %REC LowLimit

HighLimit

RPDLimit %RPD

SampType: LCS

SPK value SPK Ref Val

TestCode: EPA Method 300.0: Anions RunNo: 39774

Units: mg/Kg

HighLimit

Prep Date:

Client ID: LCSS 12/30/2016

Sample ID LCS-29482

Batch ID: 29482

1.5

Analysis Date: 12/30/2016

SeqNo: 1246700

%RPD

RPDLimit Qual

Analyte Chloride

14

1.5

0

15.00

%REC 93.7

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612E53

05-Jan-17

Client:

Animas Environmental

Project:

COPC Angel Peak B 22

Sample ID MB-29496

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

PBS

Batch ID: 29496

PQL

RunNo: 39804

SPK value SPK Ref Val %REC LowLimit

0

TestCode: EPA Method 418.1: TPH

LowLimit

80.7

Prep Date:

Analyte

1/3/2017

Analysis Date: 1/4/2017

Result

SeqNo: 1247504

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

Analyte Petroleum Hydrocarbons, TR

ND 20

Sample ID LCS-29496

SampType: LCS

Client ID: LCSS Batch ID: 29496

RunNo: 39804

Prep Date: 1/3/2017

Analysis Date: 1/4/2017

SPK value SPK Ref Val

SeqNo: 1247505

Units: mg/Kg HighLimit

Qual

Petroleum Hydrocarbons, TR

TestCode: EPA Method 418.1: TPH

121

%RPD **RPDLimit**

Sample ID LCSD-29496

LCSS02

SampType: LCSD

Result

86

Result

88

Batch ID: 29496

PQL

20

RunNo: 39804

%REC

%REC

87.6

Prep Date: 1/3/2017

Client ID:

Analysis Date: 1/4/2017

20

SeqNo: 1247506

Units: mg/Kg HighLimit

RPDLimit Qual

Analyte Petroleum Hydrocarbons, TR SPK value SPK Ref Val

100.0

100.0

86.3

LowLimit 80.7

121

%RPD

1.45

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified
- Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

5.2

05-Jan-17

WO#:

1612E53

Client: Animas Environmental

Project:

Surr: DNOP

Animas Environmental COPC Angel Peak B 22

Sample ID LCS-29491	SampType:	LCS	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID:	29491	F	RunNo: 39801					
Prep Date: 1/3/2017	Analysis Date:	1/4/2017	8	SeqNo: 1247615 Units: mg/Kg					
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10 50.00	0	91.6	63.8	116			

104

70

130

5.000

Sample ID MB-29491	SampT	ype: ME	BLK	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 29491			R	RunNo: 39801					
Prep Date: 1/3/2017	Analysis D	ate: 1/	4/2017	S	SeqNo: 1	247616	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID MB-29515	SampT	ype: MI	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 29	515	F	RunNo: 3	9801						
Prep Date: 1/4/2017	Analysis D	Analysis Date: 1/4/2017			SeqNo: 1247617			Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	11		10.00		111	70	130					

Sample ID LCS-29515	SampType: LCS	TestCode: EPA Method	EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 29515	RunNo: 39801						
Prep Date: 1/4/2017	Analysis Date: 1/4/2017	SeqNo: 1247704 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Surr: DNOP	5.1 5.000	1.03 70	130					

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612E53

05-Jan-17

Client:

Animas Environmental

Project:

COPC Angel Peak B 22

Sample ID RB	SampT	уре: МЕ	BLK	Tes	Code: El	PA Method	od 8015D: Gasoline Range					
Client ID: PBS	Batch	n ID: SG	39753	R	RunNo: 39753							
Prep Date:	Analysis D	ate: 12	2/30/2016	S	SeqNo: 1245933 Units: r							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	880		1000		87.9	68.3	144					

Sample ID 2.50G GRO LCS	Sampi	ype: LC	S	ies	lestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch	ID: SO	39753	F	RunNo: 3	9753				
Prep Date:	Analysis D	ate: 12	2/30/2016	8	SeqNo: 1	245934	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	74.6	123			
Surr: BFB	920		1000		92.0	68.3	144			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612E53

05-Jan-17

Client:

Animas Environmental

Project:

COPC Angel Peak B 22

Sample ID RB	SampType: MBLK			Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: SB39753			F	RunNo: 3	9753					
Prep Date:	Analysis Date: 12/30/2016			5	SeqNo: 1245948 Units: mg			(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	80	120				
Sample ID 100NG BTEX LCS	S SampType: LCS TestCode: EPA Method 8021B: Volatiles						·				

		The state of the s									
Client ID: LCSS	Batch	n ID: SB	39753	R	RunNo: 3	9753					
Prep Date:	Analysis D	Analysis Date: 12/30/2016			SeqNo: 1	245949	Units: mg/K	Jnits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.84	0.025	1.000	0	83.8	75.2	115				
Toluene	0.83	0.050	1.000	0	82.6	80.7	112				
Ethylbenzene	0.81	0.050	1.000	0	81.2	78.9	117				
Xylenes, Total	2.4	0.10	3.000	0	81.6	79.2	115				
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	80	120				

Sample ID	1612E53-001AMS	Sampi	ype: MS	5	les	TestCode: EPA Method 8021B: Volatiles					
Client ID:	BGT SC-1	Batch	ID: SB	39753	R	RunNo: 3					
Prep Date:		Analysis D	ate: 12	2/30/2016	S	SeqNo: 1245952 Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.71	0.017	0.6748	0	105	61.5	138			
Toluene		0.67	0.034	0.6748	0.01057	97.9	71.4	127			
Ethylbenzene		0.67	0.034	0.6748	0	99.0	70.9	132			
Xylenes, Total		2.0	0.067	2.024	0.01667	97.7	76.2	123			
Surr: 4-Brom	ofluorobenzene	0.66		0.6748		98.0	80	120			

Sample ID 1612E53	-001AMSD Sam	pType: M	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: BGT SC	Client ID: BGT SC-1 Batch ID: SB39753				RunNo: 39753							
Prep Date:	Analysis Date: 12/30/2016			8	SeqNo: 1245953 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.72	0.017	0.6748	0	107	61.5	138	1.45	20			
Toluene	0.67	0.034	0.6748	0.01057	97.6	71.4	127	0.290	20			
Ethylbenzene	0.65	0.034	0.6748	0	95.8	70.9	132	3.27	20			
Xylenes, Total	2.0	0.067	2.024	0.01667	95.7	76.2	123	2.09	20			
Surr: 4-Bromofluoroben	zene 0.65		0.6748		96.0	80	120	0	0			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

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P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

Client Name: Animas Enviro	nmental Work Order	Number: 161	2E53		RcptNo:	1
Received by/date: a5	12/30/1	6	_			
Logged By: Andy Jansson Completed By: And Jansson Reviewed By: And Jansson		5		W/ID		
Chain of Custody						
1. Custody seals intact on sam	ple bottles?	Ye	s \square	No 🗆	Not Present	
2. Is Chain of Custody complet	e?	Ye	s 🗸	No 🗌	Not Present	
3. How was the sample deliver	ed?	Co	urier			
Log In						
4. Was an attempt made to co	ol the samples?	Ye	s 🗸	No 🗀	NA 🗆	
5. Were all samples received a	at a temperature of >0° C to 6.	0°C Yes	· 🗸	No 🗆	NA 🗆	
6. Sample(s) in proper contain	er(s)?	Ye	s 🗸	No 🗆		
7. Sufficient sample volume for	indicated test(s)?	Ye	s 🔽	No 🗌		
8. Are samples (except VOA at	nd ONG) properly preserved?	Ye	s 🗸	No 🗌		
9. Was preservative added to b	pottles?	Ye	s 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headsp	ace?	Ye	s 🗆	No 🗆	No VOA Vials	
11. Were any sample container	s received broken?	Ye	s	No 🗹	# of preserved	
12.Does paperwork match botti (Note discrepancies on chair		Ye	s 🗹	No 🗆	bottles checked for pH:	r >12 unless noted)
13. Are matrices correctly identif	Ye	s 🗸	No 🗌	Adjusted?		
14. Is it clear what analyses were requested?			V	No 🗆		
15. Were all holding times able ((If no, notify customer for au		Ye	V	No 🗆	Checked by:	
Special Handling (if appli	cable)		_	_	_	
16. Was client notified of all disc	crepancies with this order?	Ye	s 🗆	No 🗆	NA 🗹	1
Person Notified: By Whom:		Date Via: el	//ail	Phone Fax	☐ In Person	
Regarding:	THE REAL PROPERTY AND ADDRESS OF THE PERTY	VIA		J T HOHO T GA		
Client Instructions:						
17. Additional remarks:						1
18. Cooler Information Cooler No Temp °C 1 1.4	Condition Seal Intact Sea Good Yes	al No Seal I	Date	Signed By		

Chain-of-Custody Record		Turn-Around Time:					HALL ENVIRONMENTAL									
ent: Animas Environmental Services, LLC illing Address: 604 W Pinon St.			☐ Standard Project Name:	ANALYSIS LABORATORY												
			COPC Angel Peak B 22 Project #:													
							Tel. 505-345-3975 Fax 505-345-4107									
505-564								4-1	Ē.	Aı	nalysi	s Requ	iest			
ax#:	clamema	n@animasenvironmental.c	Project Manag	er:					Q							
, -		□ Level 4 (Full Validation)		C. Lameman	/E. McNally				RO/MF							
creditation:		Sampler: SG/						0/0								
	□ Other_								GR							2
ype)	- 1		Sample Temp	ample Temperature: 4 %			F.	0.0	15		1 1					or N)
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - 8021E	TPH - EPA 418	Chlorides - 30	- EPA							Air Bubbles (Y
9:33	SOIL	BGT SC-1	MeOH Kit 2 - 4 oz jars	MeOH cool	-001	х	х	х	X							
										\perp						
										+						
						_	_			_	\sqcup		\perp			\perp
Time: (450 Time:	Relinquishe	Dlassed. Halt	Received by: Received by: Decontracted to other a	bet		Remarks: Bill to Conoco Phillips WO #:10390333 Supervisor: Michael Wissing USERID: KAITLW Area: 2 Ordered by: Lisa Hunter				(estions			
	Animas ddress: 505-564 fax#: ckage: ird tion: ype) Time 9:33	Animas Environ Iddress: 604 W Farming 505-564-2281 Fax#: clamema ckage: Ird Ition: 9	Animas Environmental Services, LLC Iddress: 604 W Pinon St. Farmington, NM 87401 505-564-2281 Fax#: clameman@animasenvironmental.ccckage: Ind	Animas Environmental Services, LLC Standard Project Name:	Animas Environmental Services, LLC Standard X Rush_3-	Animas Environmental Services, LLC Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround	Animas Environmental Services, LLC Standard Project Name:	Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround Project Name: COPC Angel Peak B 22 48 Farmington, NM 87401 Project #: COPC Angel Peak B 22 To So5-564-2281 To Sample: C. Lameman/E. McNally C. Lamema	Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround Project Name:	Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround Project Name:	Animas Environmental Services, LLC Standard Standa	Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround Project Name: ANALYSI Sos-564-2281 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Angel Peak B 22 Analysi Cope Analysi Cope Angel Peak B 22 Cope Angel Peak B 22 Analysi Cope Analysis Cope Analysis Cope Analysis Cope Angel Peak B 22 Cope Analysis Cope Angel Peak B 22 Cope Angel Peak B 22 Analysis Cope Angel Peak B 22 Cope Angel P	Animas Environmental Services, LLC Standard X Rush_3-Dey Turnaround Project Name: Project Name: Analysis Required Project Name: Analysis Required Project Manager: C. Lameman/E. McNally Project Manager: No Dother Project Manager: No Dother Project Manager: No Dother Project Manager: No Project Manager: No Dother No Project Manager: No Dother No Project Manager: No No Dother No No No No No No No N	Animas Environmental Services, LLC Standard Standa	Animas Environmental Services, LLC Standard Standa	Animas Environmental Services, LLC Standard X Rush_3-Day Turnaround Analysis LaBorator

BURLINGTON

ConocoPhillips ANGEL PEAK B#22 SF-047017 B
1630'FNL & 1850'FEL SEC.13 - T 28 N - R 11 W

SAN JUAN CO. N. M. FLEV. 5834' RKB EMERGENCY NUMP: 5051 324-5178

