Form C-144 Revised June 6, 2013

District I'

1625 N. French Dr., Hobbs, NM 88240
District II

811 S. First St., Artesia, NM 88210
District III

1000 Rio Brazos Road, Aztec, NM 87410
District IV

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

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Proposed Alternative Method Permit or Closure 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 alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinary.	nces.
Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538	
Address: PO BOX 4289, Farmington, NM 87499 Facility or well name: HUERFANO UNIT 283	
API Number:30-045-23835 OCD Permit Number:	
U/L or Qtr/Qtr O Section 35 Township 26N Range 9W County: San Juan	
Center of Proposed Design: Latitude <u>36.43952 ∘N</u> Longitude <u>-107.75488 ∘W</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 Low Chloride Drilling Fluid ☐ yes ☐ no	
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
☐ String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D	
3.	
Volume: 120 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	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approva	ıl.
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
☐ Alternate. Please specify	

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: Uariance(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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - 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 ☑ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	
from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ē.
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 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	15.17.9 NMAC
I Tronously Approved Design (attach copy of design) Att Transfer or Termit 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	
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
14. 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	
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. 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
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	
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. 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 by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.1 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards car 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	7.11 NMAC 9.15.17.11 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 be	lief
Name (Print): Title:	
g;	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	
e-mail address:	810016 ag the closure report.
e-mail address:	810016 ag the closure report.
e-mail address: Telephone:	8 10016 ag the closure report. ot complete this

22.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print) Crystal Walker Title: Regulatory Coordinator
Signature: Date: 12/10/16
e-mail address: <u>crystal.walker@cop.com</u> Telephone: (505) 326-9837

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

Lease Name: Huerfano Unit 283

API No.: 30-045-23835

NOTE: The subject well is twinned and currently shares a BGT with the Huerfano Unit 557. The original BGT for the subject well was moved and the closure report is below.

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:

t ()

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.

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 was not found.

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

The closure process notification to the landowner was not found.

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

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. BR shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will 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)

She was Kathalana

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 accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	eation	and Co	orrective A	ction	l			
						OPERA'	ГOR		☐ Initi	al Report	\boxtimes	Final Repor
				&G Company,		Contact Crystal Walker						
		th St, Farmin				Telephone No.(505) 326-9837						
Facility Na	ne: Huerfa	no Unit 283]	Facility Type: Gas Well						
Surface Ow	ner FEDE	ERAL		Mineral O	wner I	FEDERAL			API No	. 30-045-2	23835	
				LOCA	TION	OF RE	LEASE					
Unit Letter O	Section 35	Township 26N	Range 9W	Feet from the 790		South Line South	Feet from the 1540		Vest Line East	County San Juan		
	Latitude 36.43952 Longitude -107.75488											
				NAT	URE	OF REL	EASE					
Type of Rele	ase					Volume of	Release		Volume I	Recovered		
Source of Re	lease					Date and H	Iour of Occurrence	e	Date and	Hour of Dis	covery	
Was Immedi	ate Notice C		Yes 🗆	No 🛛 Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Reac		Yes 🛛 1	Jo		If YES, Vo	olume Impacting t	the Wate	ercourse.			
If a Watercou N/A	ise was mi	pacted, Descr	ioc i unij.									
	as encount	em and Reme ered during	the BGT (Closure.							,	
N/A				is true and compl	lata to th	a host of may	lmounted on and u		. d 4h at		OCD	
regulations a public health should their or or the environ	or the environment. In a	are required to ronment. The ave failed to a	o report and acceptance acceptance of accept	d/or file certain re e of a C-141 repo investigate and re tance of a C-141 re	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thre	ctive acti eport" d eat to gr	ions for relates not related to the countries of the coun	eases which ieve the oper r, surface wa	may er rator of iter, hu	ndanger liability man health
Signature: OIL CONSERVATION DIVISION							5					
Printed Name	: Crystal V	Valker				Approved by	Environmental S	pecialist	:			
Title: Regula	tory Coord	inator				Approval Dat	te:]	Expiration :	Date:		
	E-mail Address: crystal.walker@cop.com					Conditions of Approval: Attached □						
Date: 12 (Phone: (505 ets If Necess		7								4



Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 03, 2016

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

FAX

RE: COPC Huerfano Unit 283

OrderNo.: 1610B76

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/22/2016 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1610B76

Date Reported: 11/3/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

COPC Huerfano Unit 283

Lab ID: 1610B76-001

Project:

Client Sample ID: BGT S-1

Collection Date: 10/21/2016 8:40:00 AM

Received Date: 10/22/2016 8:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH			-		Analyst:	MAB
Petroleum Hydrocarbons, TR	98	19	mg/Kg	1	10/26/2016	28272
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	33	30	mg/Kg	20	10/31/2016 2:25:12 PM	28379
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	S			Analyst:	TOM
Diesel Range Organics (DRO)	18	9.9	mg/Kg	1	10/27/2016 2:31:00 PM	28288
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2016 2:31:00 PM	28288
Surr: DNOP	91.9	70-130	%Rec	1	10/27/2016 2:31:00 PM	28288
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2016 1:45:12 PM	28268
Surr: BFB	89.2	68.3-144	%Rec	1	10/26/2016 1:45:12 PM	28268
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	10/26/2016 1:45:12 PM	28268
Toluene	ND	0.049	mg/Kg	1	10/26/2016 1:45:12 PM	28268
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2016 1:45:12 PM	28268
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2016 1:45:12 PM	28268
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	10/26/2016 1:45:12 PM	28268

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.
- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1610B76

03-Nov-16

Client:

Animas Environmental

Project:

COPC Huerfano Unit 283

Sample ID MB-28379

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 28379

PQL

1.5

RunNo: 38358

SeqNo: 1197670

Units: mg/Kg

RPDLimit

Analyte Chloride

Prep Date: 10/31/2016

Analysis Date: 10/31/2016

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Result ND

Sample ID LCS-28379 LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 38358

Prep Date: 10/31/2016

Client ID:

Batch ID: 28379 Analysis Date: 10/31/2016

SeqNo: 1197671

Units: mg/Kg

%RPD

Analyte

PQL SPK value SPK Ref Val

15.00

HighLimit

Qual

Chloride

14

1.5

%REC 92.1

110

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

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

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

P

Sample container temperature is out of limit as specified

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1610B76

03-Nov-16

Client:

Animas Environmental

Project:

COPC Huerfano Unit 283

Sample ID MB-28272

SampType: MBLK

SPK value SPK Ref Val

TestCode: EPA Method 418.1: TPH

Client ID:

Analyte

PRS

Batch ID: 28272

RunNo: 38229

Prep Date: 10/25/2016

Analysis Date: 10/26/2016

PQL

SeqNo: 1193363

%REC LowLimit

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Petroleum Hydrocarbons, TR

ND 20

SampType: LCS

TestCode: EPA Method 418.1: TPH

Sample ID LCS-28272

Client ID: LCSS

Prep Date: 10/25/2016

Batch ID: 28272

RunNo: 38229

Units: mg/Kg

Analysis Date: 10/26/2016 Result

110

110

Result

SeqNo: 1193364 SPK value SPK Ref Val %REC 112

LowLimit HighLimit

%RPD

RPDLimit

Qual

Qual

Petroleum Hydrocarbons, TR Sample ID LCSD-28272

LCSS02

SampType: LCSD Batch ID: 28272

PQL

20

20

80.7 TestCode: EPA Method 418.1: TPH

SeqNo: 1193365

RunNo: 38229

Units: mg/Kg

Analyte Petroleum Hydrocarbons, TR

Client ID:

Prep Date: 10/25/2016

Analysis Date: 10/26/2016 Result **PQL**

SPK value SPK Ref Val %REC LowLimit 100.0

100.0

113 0

80.7

HighLimit 121 %RPD 1.22 **RPDLimit**

Page 3 of 6

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1610B76

03-Nov-16

Client:

Animas Environmental

Project:

COPC Huerfano Unit 283

Sample ID LCS-28288	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 282	288	R	RunNo: 3	8253				
Prep Date: 10/26/2016	Analysis Da	ate: 10	/27/2016	S	SeqNo: 1	193973	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.4	62.6	124			
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID MB-28288	SampTy	pe: ME	BLK	Tes	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 28	288	R	tunNo: 3	8253				
Prep Date: 10/26/2016	Analysis Da	ate: 10	/27/2016	S	SeqNo: 1	193974	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10			× ×			67	**	
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	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#:

1610B76

03-Nov-16

Client:

Animas Environmental

Project:

COPC Huerfano Unit 283

Sample ID MB-28268

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

68.3

Client ID:

PBS

Batch ID: 28268

PQL

5.0

RunNo: 38235

%RPD

Prep Date:

10/25/2016

Analysis Date: 10/26/2016

SeqNo: 1193447

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO)

Result ND

1000

SPK value SPK Ref Val

86.3

%REC

144

HighLimit

RPDLimit

Surr: BFB

Sample ID LCS-28268

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

LCSS Client ID:

10/25/2016

Batch ID: 28268

PQL

5.0

RunNo: 38235

SeqNo: 1193448

Units: mg/Kg

Analyte

Analysis Date: 10/26/2016

LowLimit SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

Prep Date:

26 970

Result

860

25.00 1000

104 97.1

74.6 68.3

123 144

Qualifiers:

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

Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory, Inc.

0.96

0.99

1.0

3.0

1.1

0.025

0.050

0.050

0.10

1.000

1.000

1.000

3.000

1.000

WO#:

1610B76 03-Nov-16

Client:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Animas Environmental

Project:

COPC Huerfano Unit 283

Sample ID MB-28268	SampType: MBLK	TestCode: EPA N	Method 8021B: Volatiles	*
Client ID: PBS	Batch ID: 28268	RunNo: 38235	5	
Prep Date: 10/25/2016	Analysis Date: 10/26/20	6 SeqNo: 11934	177 Units: mg/Kg	
Analyte	Result PQL SPK	alue SPK Ref Val %REC Lo	wLimit HighLimit %RPD	RPDLimit Qual
Benzene	ND 0.025			
Toluene	ND 0.050			
Ethylbenzene	ND 0.050			
Xylenes, Total	ND 0.10			
Surr: 4-Bromofluorobenzene	1.0 1	000 101	80 120	
Sample ID LCS-28268	SampType: LCS	TestCode: EPA N	Method 8021B: Volatiles	
Client ID: LCSS	Batch ID: 28268	RunNo: 38235	5	
Prep Date: 10/25/2016	Analysis Date: 10/26/20	6 SeqNo: 11934	178 Units: mg/Kg	
Analyte	Result PQL SPK v	alue SPK Ref Val %REC Lo	wLimit HighLimit %RPD	RPDLimit Qual

0

0

0

0

96.3

99.1

100

99.7

108

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

75.2

80.7

78.9

79.2

80

115

112

117

115

120

- E Value above quantitation range
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

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

Client Name: A	nimas Environ	mental	Work C	Order Number:	1610	376			Rcpt	tNo: 1
Received by/date:	#		10/2	2/110						
Logged By:	Lindsay Mang	ln e	10/22/20	16 8:20:00 AN	1		July	Hogo		e
Completed By:	Lindsay Mang	in	10/25/20	16 9:22:54 AN	1		July 1	Hogo		
Reviewed By:	Fe w/	25/16								3 C S S
Chain of Custo			,			• ••				
1. Custody seals	- 179s	le bottles?			Yes	[1	No	[]	Not Present	
2. Is Chain of Cus					Yes		No	[,1	Not Present	l *I
3. How was the s	ample delivere	d?			Cour	ier				
<u>Log In</u>										
4. Was an attem	pt made to coo	l the sample	es?		Yes	V	No	[]	NA	[_]
5. Were all samp	les received at	a temperat	ure of >0° C	to 6.0°C	Yes	V	No	[]	NA I	r i
6. Sample(s) in p	roper containe	er(s)?			Yes	V	No	[.]		
7. Sufficient samp	ole volume for	indicated te	st(s)?		Yes	M	No			
8. Are samples (e	except VOA an	d ONG) pro	perly preserv	ed?	Yes	~	No	[]		
9. Was preservat	ive added to be	ottles?			Yes		No	!	NA	
10.VOA vials have	e zero headspa	ice?			Yes		No		No VOA Vials	M
11. Were any sam	ple containers	received br	oken?		Yes		No		# of preserved	
12 Dans	de waatab battla	lahala?			Yes		No	1.1	bottles checked for pH:	d
12.Does paperwo (Note discrepa					res	(Y.)	NO	1		(<2 or >12 unless noted
13. Are matrices o	orrectly identifi	ed on Chain	of Custody?		Yes		No		Adjusted	?
14, is it clear what analyses were requested?					Yes		No	[]		
15.Were all holdin (If no, notify cu	-				Yes		No	ľΊ	Checked	by:
Special Handli	na /if analis									
16. Was client not			th this order?	•	Yes		No		NA	M
Person				Date:				-		
By Whor	-	days in the second		Via:	eMa	ail (Phone i	Fax	["] In Person	
Regardir	<u></u>									
Client In:	structions:				Water Marie Color					-
17. Additional rem	narks:							****		w 1
18. Cooler Inform		Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	I	
1			Yes							

Chain-of-Custody Record				Tum-Around Time:				HALL ENVIRONMENTAL											
Client: Animas Environmental Services, LLC				X Standard			_					LA	-						
		1. 1.		Project Name:															
Mailing Address: 604 W Pinon St.			COPC HUERFANO UNIT 283				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												
							Tel. 505-345-3975 Fax 505-345-4107												
			gton, NM 87401					I.	el. 50)5-3 ⁴				: 505- Reque		107			
	Phone #: 505-564-2281 Email or Fax#: eskyles@animasenvironmental.com			5					100	- 1		Allal	y 515 :	Teque	٥L	1.00	_		
QA/QC Pad		eskyles(c	ganimasenvironmental.com	Project Manag	jer. E. Skyles		,												
X Standar	_		☐ Level 4 (Full Validation)		E. Okyles														
Accreditati			B cover + (i dii validation)	Sampler: CL/S	se .														
□ NELAP □ Other			Onice Yes No				_												
□ EDD (Type)		Sample Temperature: 2,2						0			1				1	Z			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - 8021B	TPH - EPA 418.1	TPH - 8015	Chlorides - 300.0								Air Bubbles (Y or N)	
10/21/16	8:40	SOIL	BGT S-1	1 - 4 oz.	cool	-001	х	х	х	х				\Box					
				· .		1					\dashv	+	+	++		+	+-		
		-									-	+	+	╅┤	+	-	+		
												_	4		_	_			
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									20.0			, P							
														\Box			7		
					-					1	22 A						1		
									1.0				+			+	+		
Date:	Time: LEZZ Time:	Relinquish	-Cu	Received by: Date Time Date Dat				Remarks: Bill to Conoco Phillips WO # 21340555 Supervisor: Schaaphok USERID: KGARCIA Area: 6 Ordered by: Bobby Spearman											

Photo #1

Client: ConocoPhillips

Project Name: Huerfano Unit 283

San Juan County, NM

Date Photo Taken: October 21, 2016

BGT GPS and Location: 36.43952, -107.75488

SW¼ SE¼, Section 35, T26N, R9W

Taken by: Sam Glasses, AES



Subject: BGT sampling, October 2016

Description: Facing E, overview of entire location.

Photo #2

Client: ConocoPhillips

Project Name: Huerfano Unit 283

San Juan County, NM

Date Photo Taken: October 21, 2016

BGT GPS and Location: 36.43952, -107.75488

SW¼ SE¼, Section 35, T26N, R9W

Taken by: Sam Glasses, AES



Subject: BGT sampling, October 2016

Description: Facing W, sample location.