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	RECEIVED By kcollins at 11:41 am, Apr 11, 2010
Proposed Alternative Method Permit or Closure Plan Application	
14657 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 or proposed alternative method	low-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternativ	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface wate environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rul	er, ground water or the es, regulations or ordinances.
1. Operator: <u>Burlington Resources Oil & Gas Company, LP_</u> OGRID #: <u>14538</u> Address: <u>PO BOX 4289, Farmington, NM 87499</u> Facility or well name: <u>SAN JUAN 28-6 UNIT 194</u> API Number: <u>30-039-20897</u> OCD Permit Number: <u></u>	BGT CLOSED PRIOR TO CLOSURE PLAN APPROVAL
U/L or Qtr/QtrD (NWNW) Section Township Range6W County: Rio An	rriba
Center of Proposed Design: Latitude <u>36.578289 N</u> Longitude <u>-107.424954</u> W NAD: □1927 ⊠ 1983 Surface Owner: ⊠ Federal □ State □ Private □ Tribal Trust or Indian Allotment	
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 Fl Lined Unlined Liner type: Thickness String-Reinforced String-Reinforced Liner Seams: Welded Factory	
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC 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: Thickness mil HDPE PVC Other UNSPECIFIED	
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for contract of the Santa Fe Environment	consideration of approval.
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 	ce, school, hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other_

6.

7.

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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

<u>General siting</u>	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	☐ Yes ☐ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No ⊠ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	□ Yes □ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🗌 No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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 					
 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 					
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:					
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 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	15.17.9 NMAC				
Previously Approved Design (attach copy of design) API Number: or Permit Number:					

12. Perimanent 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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are				
13. 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 Fl 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. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.					
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					
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					
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image					
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					
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No				
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance					

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality						
- which contribution of verneation non-the manerparty, which approval obtained non-the manerparty	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					
16. On-Site 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.						
 17. 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 believed. 	ef.					
Name (Print): Title:						
Signature: Date:						
e-mail address: Telephone:						
18. <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	18. OCD Approval: Permit Application (including closure plan) 🛛 Closure Plan (only) 🔲 OCD Conditions (see attachment)					
OCD Representative Signature: Jonath . Kelly Approval Date:7/12/2016						
OCD Representative Signature: OCD Representative Signature: Approval Date:	016					
OCD Representative Signature:	016					
Title: Compliance Officer 19. OCD Permit Number: 19. 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.					
Title: Compliance Officer 19. OCD Permit Number: 19. 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. Image: Closure Completion Date: 4/4/2011	the closure report.					
Title: Compliance Officer 19. OCD Permit Number: 19. 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					

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		a	
Signature:	Getal a	Jal	Ken	Date:	4/7/10	-
e-mail address:	<u>crystal.walker@cop.com</u> Teleph	one: <u>(50</u>	5) 326-9837		,	

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

Lease Name: San Juan 28-6 Unit 194 API No.: 30-039-20897

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

General Plan:

 BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

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

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

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

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

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

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	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 missing.

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

The closure process notification to the landowner was not found.

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

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

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

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

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

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

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Form C-141 Revised August 8, 2011

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

1220 5. 50. 114	1013 D1., Dana 1 0, 1414 0750	5	Sa	anta I	e, NM 875	05					
Release Notification and Corrective Action											
					OPERA	FOR		🗌 Initi	al Report	\boxtimes	Final Report
Name of Co	ompany Burlington Re	esources (Dil & Gas Com	bany	Contact Cry	stal Walker					
	01 East 30th St, Farmir					No.(505) 326-98	337				
Facility Nat	me: San Juan 28-6 Uni	t 194			Facility Typ	e: Gas Well					
Surface Ow	ner FEDERAL		Mineral (Owner	FEDERAL			API No	. 30-039-2	.0897	
			LOC	ATIC	ON OF REJ	FASE					
Unit Letter	Section Township	Range	Feet from the	Agent disk, steam	h/South Line	Feet from the	East/	West Line	County		
D	13 27N	6W	1190		North	790	CONCIDENTIAL STREET	West	Rio Arrib	a	
		L	atitude <u>36.578</u>	289	Longitude	-107.424954					
					E OF RELI						
Type of Rele	2956		INAL		Volume of	- ABGelfall (ADAPAR)		Volume I	Recovered		
Source of Re		_				lour of Occurrence	ce		Hour of Dis	covery	4
						2000 B1					
Was Immedi	ate Notice Given?	Yes 🗆	No 🛛 Not R	equired	If YES, To	Whom?					
By Whom?		-		1	Date and H	lour					
	course Reached?					olume Impacting 1	the Wat	ercourse.			
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If a Waterco	urse was Impacted, Desci	ibe Fully '	*								
N/A	aloo wao impaoloa, 2 ooo										
Describe Con	use of Problem and Reme	dial Antio	n Talsan *								
	vas encountered during										
			onosun en								
Deceribe Arr	Affected and Cleanup	Action Tol	ron *								
N/A	ea Affected and Cleanup	ACTION THE	ten."								
These has a cont	ify that the information g	ivon ohove	is two and comm	lata ta	the best of my	Imouvladca and u	ndarata	nd that nur	went to NIM		ules and
regulations a	Il operators are required	to report at	d/or file certain r	elease	notifications at	d perform correct	tive act	ions for rel	eases which	may er	ndanger
	or the environment. The										
should their	operations have failed to	adequately	investigate and r	emedia	ate contaminati	on that pose a thr	eat to g	round water	r, surface wa	ter, hu	man health
	nment. In addition, NMO		tance of a C-141	report	does not reliev	e the operator of	respons	ibility for c	ompliance w	ith any	/ other
federal, state	, or local laws and/or reg	ulations.									
Signature:			1 - 1			OIL CON	SERV	ATION	DIVISIC)N	
Signature.	Gotal	a	alky	,							
	Y				Approved by	Environmental S	necialis	t:			
Printed Nam	e: Crystal Walker				. ipproved by	O	Peeruno				
Title Docul	atory Coordinator				Approval Dat	e'		Expiration	Date:		
The, Regul	atory Coordinator				rippioval Dat	v.		Expiration			
E-mail Addr	ess: crystal.walker@cop	.com			Conditions of	Approval:			Attached		
Date: 4/	7/1Ce Phone: (50	5) 326-983	7								

Date: Phone: (505) 326 * Attach Additional Sheets If Necessary



April 7, 2011

Project No. 92115-1661

Ms. Kelsi Harrington ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87401

Phone: (505) 599-3403

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE SAN JUAN 28-6 #194 (HBR) WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities conducted at the San Juan 28-6 #194 (hBr) well site located in Section 13, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. Upon Envirotech personnel's arrival on April 4, 2011, one (1) five (5)-point composite sample was collected from directly beneath the BGT; see attached *Field Notes*. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID) and for chlorides. Additionally, the sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for all constituents analyzed, confirming a release did not occur; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted, ENVIROTECH, INC.

John Rollins Environmental Field Technician jrollins@envirotech-inc.com

Enclosures: Field Notes Analytical Results

Cc: Client File 92115

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PAGE NO: OF	AGE NO: OF ENVIROTECH INC			ENVIRO	ENVIRONMENTAL SPECIALIST:		
DATE STARTED: 4-4-11	1 1			MEXICO 874	101	LAT	121 200010
DATE FINISHED: 4-4-11			DNE: (505)		I		36.578289
FIELD R	EPORT:				FRIEIC	TION	101.121151
LOCATION: NAME: SAN JUAN 2	8-4	WELL #:		TEMP PIT:	and the second se	NENT PIT	BGT:
LEGAL ADD: UNIT: 🕤	SEC:	3	TWP: 2	71	RNG: 6		PM: Nmpm
QTR/FOOTAGE: 11902 + 790 W	1	CNTY: 7	Lip Arr.	PA	ST: NM		
	FT. X		FT. X		FT. DEEP	CUBIC Y	ARDAGE
DISPOSAL FACILITY: NA			REMEDI	ATION METH			Madride,
LAND OWNER: CONSTRUCTION MATERIAL: < + < e/		API:			BGT / PIT	VOLUME	Not on site
LOCATION APPROXIMATELY:	12			WITH LEAK	DETECTIC	DN: N	
DEPTH TO GROUNDWATER: 210	15	FT. 2:	250	FROM WEL	LHEAD		
TEMPORARY PIT - GROUNDWAT	ER 50-100 F	EET DEEF)		- Mirginia		
BENZENE < 0.2 mg/kg, BTEX < 50 mg/kg	, GRO & DRO	O FRACTIO	N (8015) ≤ 5	00 mg/kg, TPH	(418.1) ≤ 250	0 mg/kg, CH	LORIDES < 500 mg/kg
TEMPORARY PIT - GROUNDWAT	ER >100 FE	ET DEEP					
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg,	GRO & DRO	FRACTION	N (8015) ≤ 50	0 mg/kg, TPH ((418.1) ≤ 250	0 mg/kg, CHI	$LORIDES \le 1000 \text{ mg/kg}$
PERMANENT PIT OR BGT							5.5
BENZENE $\leq 0.2 \text{ mg/kg}$, BTEX $\leq 50 \text{ mg/kg}$	cg, TPH (418.)	1) ≤ 100 mg/	kg, CHLORI	DES ≤ 250 mg/	kg		
			FIEL	D 418.1 ANAL			
	SAMPLE I.D.	LAB NO.	WEIGHT (B	mL FREON	DILUTION		CALC. (mg/kg)
	Bitton	1	5	20		217	20
	_	2					20
		4					
		5					
		0					
PERIMETER				RESULTS		PRC	FILE
	1	SAMPLE ID	READING	CALC.			
		ID Cotton	Mai	(mg/kg)			
	F						
LN	ŀ						
J.S.	Ĺ						
- Pe	-		DDDUT				
	- F		DRESUL	RESULTS	1	ż	
P.J.	н. — — — — — — — — — — — — — — — — — — —	SAMPI		(mg/kg)	1.	~	X
25	-	12 Hom		0%	1	X	(J
T.	L				• ×	t.	V ·
×	H				×		r.
	-						
	OTES:	,					
SAMPLE ID ANALYSIS RESULTS BENZENE	200-10						
BTEX	tauking e			Reports			
GRO & DRO CHLORIDES	ooppm TP	4 100 PF	- DV				
	ORKORDER			HO ORDERE			

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client	ConocoPhillips	Project #:	92115-1661
Sample No .:	1	Date Reported:	4/7/2011
Sample ID:	Bottom	Date Sampled:	4/4/2011
Sample Matrix:	Soil	Date Analyzed:	4/4/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

0.0	Total Petroleum Hydrocarbons	20	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: San Juan 28-6 #194 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

John Rollins Printed

Review Robyn Jones, EIT

Printed



al. Date:	4-Apr-11		
Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200 500 1000	217	

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

12/1

Analyst

Date

John Rollii	าร	
Print Name	$(\cap$	
(Doyn	6AC	
Review		

Robyn Jones, EIT Print Name

4/7/2011

4/7/2011

Date



Field Chloride

Client:	ConocoPhillips	Project #:	92115-1661
Sample No.:	1	Date Reported:	4/7/2011
Sample ID:	Bottom	Date Sampled:	4/4/2011
Sample Matrix:	Soil	Date Analyzed:	4/4/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Field Chloride	ND	28.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: San Juan 28-6 #194 (hBr)

Analyst

John Rollins Printed

Review

Robyn Jones, EIT Printed



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	ConocoPhillips Bottom 57808 11469 Soil Cool		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:		92115-1661 04-05-11 04-04-11 04-04-11 04-04-11 04-04-11
Condition:	Intact		Analysis Requested:		BTEX
			Dilution:		10
Parameter		Concentration (ug/Kg)		Det. Limit (ug/Kg)	1
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		ND ND ND ND ND		0.9 1.0 1.2 0.9	
Total BTEX		ND			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.2 %
	1,4-difluorobenzene	91.2 %
	Bromochlorobenzene	87.3 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: San Juan 28-6 #149

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative:	N/A 0404BBL4 QA/QC 57808 Soil N/A		Project #: Date Reported: Date Sampled: Date Received:		N/A 04-05-11 N/A N/A		
Condition:	N/A N/A		Date Analyzed: Analysis:		04-04-11		
	10/7		Dilution:		BTEX 10		
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.		
Detection Limits (ug/L)		Accept. Ran	all the American Provide 1.1	Conc	Limit		
Benzene	1.0509E+005	1.0530E+005	0.2%	ND	0.1		
Toluene	1.2622E+005	1.2648E+005	0.2%	ND	0.1		
Ethylbenzene	1.1685E+005	1.1708E+005	0.2%	ND	0.1		
p,m-Xylene	2.7464E+005	2.7519E+005	0.2%	ND	0.1		
o-Xylene	1.1294E+005	1.1316E+005	0.2%	ND	0.1		
Dunlicate Conc. (uc/Kr)	Comple	Duplicate	0/ D/#				
Benzene Toluene Ethylbenzene p,m-Xylene	Sample ND ND ND ND ND	Duplicate ND ND ND ND ND	%Diff. 0.0% 0.0% 0.0% 0.0% 0.0%	Accept Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	Detect. Limit 0.9 1.0 1.0 1.2 0.9		
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	ND ND ND ND	ND ND ND ND	0.0% 0.0% 0.0% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	ND ND ND ND	ND ND ND ND	0.0% 0.0% 0.0% 0.0% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.2 0.9 Accept Range		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	ND ND ND ND Sample	ND ND ND ND	0.0% 0.0% 0.0% 0.0% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	ND ND ND ND ND Sample ND	ND ND ND ND Amount Spiked	0.0% 0.0% 0.0% 0.0% Spiked Sample 501 504	0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100% 101%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150 46 - 148		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene	ND ND ND ND ND Sample ND	ND ND ND ND Amount Spiked 500 500	0.0% 0.0% 0.0% 0.0% Spiked Sample 501	0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150		

ND - Parameter not detected at the stated detection limit.

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

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996. Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 57808 Analyst

11-Review



Chloride

Client:	ConocoPhillips	Project #:	92115-1661
Sample ID:	Bottom	Date Reported:	04/05/11
Lab ID#:	57808	Date Sampled:	04/04/11
Sample Matrix:	Soil	Date Received:	04/04/11
Preservative: Condition:	Soll Cool Intact	Date Received: Date Analyzed: Chain of Custody:	04/04/11 04/05/11 11469

		the second s
Parameter	Concentration (mg/Kg)	
alameter	concentration (mg/Ng)	

Total Chloride

50

Reference:

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

Comments:

San Juan 28-6 #149

Analyst

1 1

Review

5796 US Highway 64, Farmington, NM 87401

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

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