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.

12766	Pit, Below-Grade Tank, or	RECEIVED
45-08696	Proposed Alternative Method Permit or Closure Plan Application	By OCD 3-4-15
Please be advised environment. Nor	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 Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative that approval of this request does not relieve the operator of liability should operations result in pollution of surface wate does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rule	e request r, ground water or the
1.		
10	lington Resources    OGRID #:    14538	
	PO BOX 4289, Farmington, NM 87499	
2	name: <u>Grenier B 2 //</u>	
API Number:	3004508696       OCD Permit Number:	
U/L or Qtr/Qtr	sed Design: Latitude <u>36.75215000 <math>N</math> Longitude <u>-107.92200000 <math>W</math></u> NAD: <math>1927 \square 1983</math></u>	2
	$\boxtimes$ Federal $\square$ State $\square$ Private $\square$ Tribal Trust or Indian Allotment	2
2.	ection F, G or J of 19.15.17.11 NMAC	
	Drilling Workover Closed Prior to Closure Plan Ap	proval
	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Flu	id 🗌 yes 🗌 no
	Jnlined Liner type: Thickness mil   LLDPE   HDPE  PVC  Other	
String-Rein		
Liner Seams:	Welded Factory Other Volume: bbl Dimensions: L	x Wx D
3.		7
Below-grad	le tank: Subsection I of 19.15.17.11 NMAC	
Volume:	120 bbl Type of fluid: <u>Produced Water</u>	<u></u>
Tank Construct	ion material: <u>Metal</u>	
	containment with leak detection 🛛 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
	ewalls and liner 🗌 Visible sidewalls only 🗌 Other	
Liner type: Th	ickness mil HDPE PVC 🔀 Other <u>LLDPE</u>	
4.	Made J	
Submittel of or	e <u>Method</u> : a exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for co	nsideration of approval
Submittal of an	exception request is required. Exceptions must be submitted to the same re Environmental Bureau Office for co	noraciation of approval.

5. <b>Fencing:</b> 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 ( <i>Required if located within 1000 feet of a permanent residence, school, institution or church</i> )	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
6. <u>Netting</u> : 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. <u>Variances and Exceptions</u> : Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ntable 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
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) <ul> <li>FEMA map</li> </ul>	🗌 Yes 🗌 No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
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

<ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Temporary Pit Non-low chloride drilling fluid	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	□ Yes □ No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dattached.            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            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:	9 NMAC 9 NMAC 9.15.17.9 NMAC
11. Marki Well Fluid Management Dit Charlelicte, Subscription 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 d 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 1 and 19.15.17.13 NMAC             Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.0 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

12.         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 dattached.         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 19.15.17.12 NMAC         Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan	ocuments are
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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 Flue         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	uid Management Pit
<ul> <li>Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	ttached to the
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	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
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 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	

aloped pursuant to NMA 1978, Section 3-273, as annoted.       Writen confirmation or verification from the municipality: Writen approval obtained from the municipality       Veri No         Writen confirmation or verification or mether municipality: Writen approval obtained from the municipality       Veri No         Writen confirmation or verification or verification or mether NV ENFARD-Mixing and Miseral Division       Veri No         Writen consider and an experiment of the SVM ENFARD-Mixing and Miseral Resources, USGS, NM Geological Society, Topographic may from the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Test No         * FibMA map       'Yes   No         * FibMA map       'Yes   No         * FibMA map       'Yes   No         * Sing Crites Constraints - Map of the design of the appropriate requirements of 1515/11 DNACC       Constraints - Mark and the design of the appropriate requirements of 1515/11 DNACC         Constraints of Plan of Burini Dreach (ring Plan back upon the appropriate requirements of 1515/11 DNACC       Constraints - State Constraints - Mark and upon the appropriate requirements of 1515/11 DNACC         Constraints of Plan of Burini Dreach (ring Plan back upon the appropriate requirements of 1515/11 DNACC       Constraints - State Constraints - Mark and upon the appropriate requirements of 1515/11 DNACC         Constraints Plan - back upon the appropriate requirements of 1515/11 DNACC       Constraints - Mark and upon the appropriate requirements of 1515/11 DNACC         State Natchia Sambift, Plan - back upon the appropriate requirements of			
Writes confirmation weithful tation or way from the NM EMNRD-Mining and Mineral Division     Writes confirmation weithful tation or map from the NM EMNRD-Mining and Mineral Division     Write confirmation weithful tation or waithful to the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Programhile map     Writes confirmation and the documents are attached.     Press I to O-year float/plain.     Press I to O-year Nuice - based yoos the appropriate requirements of D 15:17:13 NMACC     Construction/Design Plan of Temporting Plain/Pl		ined from the municipality	🗌 Yes 🗌 No
- Papincering measure incomparated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological     Society, Topographic map     Within a 100-year floodplain.     Prod (		Ineral Division	🗌 Yes 🗌 No
Soliday: Topographic map       Uves In No         Within a 100-year floodplain. FBMA.map       Uves In No         Person       Presch         No       Telesch and plain. FBMA.map         Stitig Citral Compliance Demonstrations - Statuched.       Interview of the documents are attached.         Stitig Citral Compliance Demonstrations - Statuched.       Stitig Citral Compliance Demonstrations - Statuched.         Construction Design Plan of Europearup PI (for in-place build of a drying pad) - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC         Construction Design Plan of Europearup PI (for in-place build of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC         Construction Design Plan of Europearup PI (for in-place build of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC         Protocols and Proceedures - based upon the appropriate requirements of 19.15.17.13 NMAC         Re-orgeturing Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-orgeturing Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-orgeturing Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Person A publication Certifications:         Thereby certify that the information submitted with the application is true, accurate and complete to the best of my knowledge and helief.         Name (Print):       Date:         Signature:		in the second	
FEMA map		ineral Resources; USGS; NM Geological	□ Yes □ No
No. 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 much 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 Strike Owner Notice - based upon the appropriate requirements of 19.15.17.10 NMAC         ConstructionDesign Plan of Burial Trench (ff applicable) based upon the appropriate requirements of 19.15.17.11 NMAC         ConstructionDesign Plan of Burial Trench (ff applicable) based upon the appropriate requirements of 19.15.17.13 NMAC         ConstructionDesign Plan of Burial Trench (ff applicable). based upon the appropriate requirements of 19.15.17.13 NMAC         Outside Sampling Plan on the appropriate requirements of 19.15.17.13 NMAC         Outside Sampling Plan on the appropriate requirements of 19.15.17.13 NMAC         Outside Sampling Plan on the appropriate requirements of 19.15.17.13 NMAC         Outside Sampling Plan on the appropriate requirements of 19.15.17.13 NMAC         Disposal Pacility Name and Permit Number (Dri liquids, diffing fluids and duril cutings or in case orosite closure standards cannot be achieved)         Bit Restandion Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC <b>Construction Application</b> aubmitted with this application is true, accurate and complete to the best of my knowledge and belief.         Name (Print):			□ Yes□ No
On-Site Cleaner Pinn Checklist: (19:15:17:13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check must in the box, that the decaments are attached.         By a check must in the box that the decaments are attached.         Construction/Design Pinn of Burial Trench (if applicable) based upon the appropriate requirements of Subsection & (19:15:17:13 NMAC)         Construction/Design Pinn of Burial Trench (if applicable) based upon the appropriate requirements of Subsection & (19:15:17:13 NMAC)         Construction/Design Pinn of Burial Trench (if applicable) based upon the appropriate requirements of Subsection & (19:15:17:13 NMAC)         Construction/Design Pinn of Burial Trench (if applicable) based upon the appropriate requirements of 19:15:17:13 NMAC         Construction/Design Pinn of Panner Number (In Induds, drilling Initias and drill cultings or in case on-site closure standards cannot be achieved)         Disposal Earlies Name and Permi Number (In Induds, drilling Initias and drill cultings or in case on-site closure standards cannot be achieved)         Disposal Earlies Name and Permi Number (In Induds, drilling Initias and drill cultings or in case on-site closure standards cannot be achieved)         Disposal Earlies Name and Permi Number (In Induds, drilling Initias and drill cultings or in case on-site closure standards cannot be achieved)         Disposal Earlies Name and Pinn - based upon the appropriate requirements of Subsection H of 19:15:17:13 NMAC         Tree       Tree         Gover to Application Certification:         Thereby certify that the information s			
Operator Application Certification:         1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.         Name (Print):	On-Site Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following of the fo	ents of 19.15.17.10 NMAC ection E of 19.15.17.13 NMAC iate requirements of Subsection K of 19.15.17. based upon the appropriate requirements of 19. 3 NMAC ents of 19.15.17.13 NMAC .17.13 NMAC ttings or in case on-site closure standards cann 9.15.17.13 NMAC 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Thereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.         Name (Print):			
Signature:		complete to the best of my knowledge and beli	ief.
e-mail address:       Telephone:         14.       OCD Approval:       Permit Application (including closure plan) I Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	Name (Print):	Title:	
e-mail address:       Telephone:         14.       OCD Approval:       Permit Application (including closure plan) I Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	Signature:	Date:	
<sup>14.</sup> OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (ent);       OCD Conditions (see attachment)         OCD Representative Signature:	e-mail address:	Гelephone:	
OCD Representative Signature:	18.	<del>y)</del> OCD Conditions (see attachment)	
Title:	OCD Representative Signature:	Approval Date:	Apr 24, 2015
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.         The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.         20.       Closure Completion Date: 11/5/13         21.       Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.         21.       Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.         21.       Closure Notice (surface owner and division)         21.       Proof of Closure Notice (surface owner and division)         22.       Proof of Closure Notice (surface owner and division)         23.       Confirmation Sampling Analytical Results (required for on-site closure)         24.       Disposal Facility Name and Permit Number         25.       Soil Backfilling and Cover Installation         24.       Re-vegetation Application Rates and Seeding Technique         25.       Soil Backfilling and Cover Installation		Permit Number:	
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)			
20.         Closure Method:         X         Waste Excavation and Removal       On-Site Closure Method         If different from approved plan, please explain.         21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.         X       Proof of Closure Notice (surface owner and division)         Proof of Deed Notice (required for on-site closure for private land only)         Plot Plan (for on-site closures and temporary pits)         X       Confirmation Sampling Analytical Results (if applicable)         Waste Material Sampling Analytical Results (required for on-site closure)         Disposal Facility Name and Permit Number         X       Soil Backfilling and Cover Installation         X       Re-vegetation Application Rates and Seeding Technique         X       Site Reclamation (Photo Documentation)	Instructions: Operators are required to obtain an approved closure plan prior to imple The closure report is required to be submitted to the division within 60 days of the com-	ementing any closure activities and submitting pletion of the closure activities. Please do not	
Closure Method:         Waste Excavation and Removal       On-Site Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         If different from approved plan, please explain.         21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.         Proof of Closure Notice (surface owner and division)       Proof of Deed Notice (required for on-site closure for private land only)         Plot Plan (for on-site closures and temporary pits)       Confirmation Sampling Analytical Results (required for on-site closure)         Disposal Facility Name and Permit Number       Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique       Site Reclamation (Photo Documentation)		Closure Completion Date: <u>11/5/13</u>	
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check         mark in the box, that the documents are attached.         Proof of Closure Notice (surface owner and division)         Proof of Deed Notice (required for on-site closure for private land only)         Plot Plan (for on-site closures and temporary pits)         Confirmation Sampling Analytical Results (if applicable)         Usate Material Sampling Analytical Results (required for on-site closure)         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)	Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method		
Langua Loguro Logu		osure Method 🗌 Waste Removal (Closed-lo	oop systems only)

#### 22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Kenny Davis	Title: <u>Staff Regulatory Technician</u>	
Signature:	Date: <u>12/3/14</u>	
e-mail address: kenny.r.davis@conocophillips.com	Telephone: <u>505-599-4045</u>	j

#### Burlington Resources Oil Gas Company, LP San Juan Basin Below Grade Tank Closure Report (Without Reclamation)

Lease Name: Grenier B 2 API No.: 30-045-08696

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.
- 2. The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- 3. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

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

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

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

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

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

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

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

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.1	250

8. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was not determined for the above referenced well.

 If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 10. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

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

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

The closure process notification to the landowner not found. COPC was not aware that the original notification sent at the time of Permitting was not the only closure notification required. ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

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

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

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

Provision 13 will be accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

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

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

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

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



November 25, 2013

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

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

RE: Below Grade Tank Closure Report Grenier B #2 San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Grenier B #2, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

### 1.0 Site Information

#### 1.1 Location

Site Name – Grenier B #2 Legal Description – NW¼ SE¼, Section 6, T29N, R10W, San Juan County, New Mexico Well Latitude/Longitude – N36.75107 and W107.92117, respectively BGT Latitude/Longitude – N36.75088 and W107.92113, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, November 2013

## 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 10 based on the following factors:

Crystal Tafoya Grenier B #2 BGT Closure Report November 25, 2013 Page 2 of 5

- Depth to Groundwater: A Field Pit Site Assessment Form dated May 1994 reported the depth to groundwater as greater than 100 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: Unnamed washes which discharge to the wash in Potter Canyon are located approximately 500 feet west, 550 feet eastnortheast, and 640 feet southwest of the location. (10 points)

#### **BGT Closure Assessment** 1.3

AES was initially contacted by Jess Henson, CoP representative, on November 5, 2013, and on November 6, 2013, Stephanie Lynn and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

#### Soil Sampling 2.0

On November 6, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

#### Field Screening 2.1

### 2.1.1 Volatile Organic Compounds

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

### 2.1.2 Total Petroleum Hydrocarbons

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

Crystal Tafoya Grenier B #2 BGT Closure Report November 25, 2013 Page 3 of 5

#### 2.1.3 Chlorides

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

### 2.2 Laboratory Analyses

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

- Benzene, toluene, ethylbenzene and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

## 2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.0 ppm in S-4 up to 0.3 ppm in S-1. Field TPH concentrations ranged from 23.9 mg/kg in S-2 up to 30.6 mg/kg in S-3 and S-5. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Sample ID	Date Sampled	Depth below BGT (ft)	e, November 2 VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)	51.00	100	250
S-1	11/6/13	0.5	0.3	29.3	NA
S-2	11/6/13	0.5	0.1	23.9	NA
S-3	11/6/13	0.5	0.2	30.6	NA
S-4	11/6/13	0.5	0.0	27.9	NA
S-5	11/6/13	0.5	0.1	30.6	NA
SC-1	11/6/13	0.5	0.1	NA	40

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results

NA - Not Analyzed

Crystal Tafoya Grenier B #2 BGT Closure Report November 25, 2013 Page 4 of 5

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

Table 2.	Soil	Laboratory Analytical Results
		N

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
	Level (NMAC 19.15	ND V	0.2	50	100		250
SC-1	11/6/13	0.5	<0.050	<0.25	NA	NA	<30

NA - Not Analyzed

# 3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-3 and S-5 with 30.6 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were also below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Grenier B #2.

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

Sincerely,

David g Reme

David J. Reese Environmental Scientist

Elizabeth V McNdly

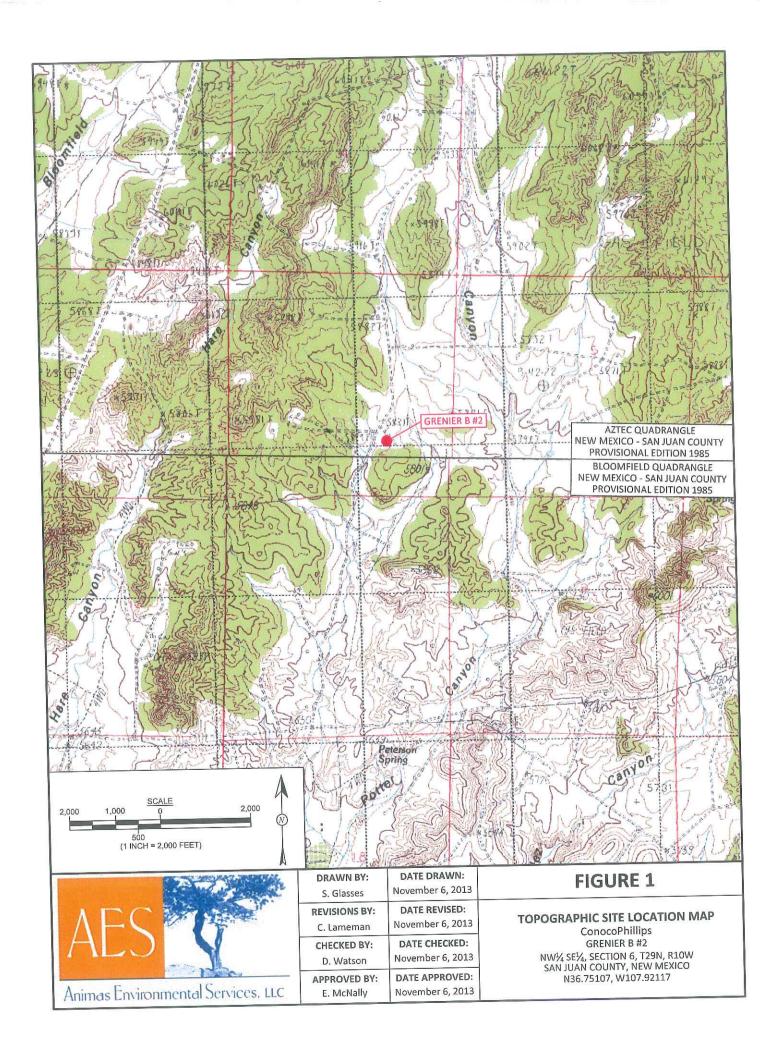
Elizabeth McNally, P.E.

Crystal Tafoya Grenier B #2 BGT Closure Report November 25, 2013 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, November 2013 AES Field Screening Report 110613 Hall Analytical Report 1311254

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			and the second								_	EGEND IPLE LOCATIONS
	Field Scr	eening R OVM-			-	1 A A		10.33	P			
Sample ID	Date	PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)				Laborato	y Analytica	l Results	1.0	
NMOCD AC S-1	TION LEVEL		<b>100</b> 29.3	250 NA	9	Sample ID	Date	Benzene (mg/kg)	Total BTEX	TPH - GRO	TPH - DRO	Chlorides (mg/kg)
S-2	11/6/13	0.1	23.9	NA	Chefer and				(mg/kg) 50	(mg/kg)	(mg/kg) 00	250
S-3	11/6/13	0.2	30.6	NA		NMOCD ACT SC-1	11/6/13	0.2 <0.050	<0.25	NA	NA	<30
S-4	11/6/13	0.0	27.9	NA NA	Contraction of the	SAMPLE WAS	ANALYZED				.0.	
S-5	11/6/13 11/6/13	0.1	30.6 NA	40		Contract of the					1	Section 200
SC-1 SC-1 IS A 5-P	DINT COMP				1416						Same y	all Beer to be
		ていたいのいろうという		GRENIER B #	2 WEL	L MONUMENT	BGT - I	5-11 5-3 N36.75088 107.92113				
					ないのであるので							
20	SCALE 0 OCH = 40 FEE	т)	40	AERIAL SC	DURCE:	© 2012 GOOGLE	EARTH, AERIA	AL DATE: JUNE	10, 2011			
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**AES Field Screening Report** 

Client: ConocoPhillips

Project Location: Grenier B #2

Date: 11/6/2013

Matrix: Soil

Animas Environmental Services. LLC

www.animasenvironmental.com

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

Durango, Colorado 970-403-3084

		Time of			Field	Field TPH				HdT
	Collection	Sample	Sample	NNO	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
Sample ID		Collection	Location	(mqq)	(mg/kg)	Time	(mg/kg)	(mg/kg)	DF	Initials
1-0	7	10:54	North	0.3	NA	10:10	29.3	20.0	-	SL
	11/6/2013	10.55	South	0.1	NA	10:13	23.9	20.0	Ę	SL
7-0	CLUC/J/FF	10.55	Fact	0.0	NA	10:16	30.6	20.0	-	SL
2.7	CT07/0/TT	00.DT	\\/oct		NA	10:19	27.9	20.0	Ţ	SL
4-7 1	CTUC/3/11	0C.UL	Center	0.1	NA	10:22	30.6	20.0	1	SL
c-c c.1	CTU2/0/L1	10.58	Composite	0.1	40		Not,	Not Analyzed for TPH.	ън.	

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Total Petroleum Hydrocarbons - USEPA 418.1 Silver Nitrate

> **Dilution Factor** Not Analyzed AN DF

Not Detected at the Reporting Limit ΠD

Practical Quantitation Limit PQL

\*Field TPH concentrations recorded may be below PQL.

Stephanicall Analyst:

Page 1 Report Finalized: 11/6/13



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

November 08, 2013

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

RE: CoP Grenier B #2

OrderNo.: 1311254

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/7/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analys	is Labora	tory, Inc	20		Lab Order <b>1311254</b> Date Reported: <b>11/8/20</b>	13
CLIENT: Animas Environmental Project: CoP Grenier B #2 Lab ID: 1311254-001	Matrix:	MEOH (SO		n Date: 11/6	1 6/2013 10:58:00 AM 7/2013 9:41:00 AM	
Analyses	Result	RL 0	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	11/7/2013 11:55:50 AM	/ R14637
Toluene	ND	0.050	mg/Kg	1	11/7/2013 11:55:50 AM	/I R14637
Ethylbenzene	ND	0.050	mg/Kg	1	11/7/2013 11:55:50 AM	/ R14637
Xylenes, Total	ND	0.10	mg/Kg	1	11/7/2013 11:55:50 Al	/ R14637
Surr: 4-Bromofluorobenzene	99.5	80-120	%REC	1	11/7/2013 11:55:50 AI	A R14637
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	ND	30	mg/Kg	20	11/7/2013 1:05:26 PM	10229

**Analytical Report** 

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

		6		
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
<b>c</b>	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 3
	0	RSD is greater than RSD limit	Р	Not Detected at the Reporting Limit Page 1 of 3 Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:	1311254
	08-Nov-13

Client: Project:		Environmen enier B #2	tal								
Sample ID ME Client ID: PE Prep Date: 1		SampTy Batch Analysis Da	ID: 102	229	R	Code: EF unNo: 14 eqNo: 4	4657	300.0: Anions Units: mg/K			
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	CS-10229 CSS 11/7/2013	SampT Batch Analysis D	ID: 10	229	R	Code: E tunNo: 1 SeqNo: 4	4657	300.0: Anion Units: mg/k			
Analyte Chloride	1112010	Result 14	PQL 1.5	SPK value	SPK Ref Val 0	%REC 95.9	LowLimit 90	HighLimit 110	%RPD	RPDLimit	Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 3

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Animas Environmental
Project:	CoP Grenier B #2

riojeen on ord										
Sample ID MB-10217 MK	SampT	ype: MB	LK	Test	Code: EF	A Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: R14	1637	R	unNo: <b>1</b> 4	637				
Prep Date:	Analysis D	ate: 11	17/2013	S	eqNo: 42	21464	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Surr: 4-Bromofluorobenzene Sample ID LCS-10217 MK		ype: LC		Tesi			120 8021B: Volat	tiles		
	SampT	ype: LC	s			PA Method	6, 4,5;	tiles		
Sample ID LCS-10217 MK	SampT	h ID: R1	S 4637	F	tCode: El	PA Method 4637	6, 4,5;			
Sample ID LCS-10217 MK Client ID: LCSS Prep Date:	SampT Batcl	h ID: R1	S 4637 1/7/2013	F	tCode: El RunNo: 14	PA Method 4637	8021B: Vola		RPDLimit	Qual
Sample ID LCS-10217 MK Client ID: LCSS	SampT Batcl Analysis D	h ID: <b>R1</b> Date: 11	S 4637 1/7/2013	F	tCode: El RunNo: 1 SeqNo: 4	PA Method 4637 21465	8021B: Volat Units: mg/k	٢g	RPDLimit	Qual
Sample ID LCS-10217 MK Client ID: LCSS Prep Date: Analyte	SampT Batcl Analysis D Result	h ID: R1 Date: 11 PQL	S 4637 1/7/2013 SPK value	R S SPK Ref Val	tCode: El RunNo: 1 SeqNo: 4 %REC	PA Method 4637 21465 LowLimit	8021B: Volat Units: mg/k HighLimit 120 120	٢g	RPDLimit	Qual
Sample ID LCS-10217 MK Client ID: LCSS Prep Date: Analyte Benzene	SampT Batcl Analysis D Result 0.92	h ID: <b>R1</b> Date: 11 <u>PQL</u> 0.050	S 4637 1/7/2013 SPK value 1.000	R S SPK Ref Val 0	tCode: El RunNo: 1 SeqNo: 4 %REC 91.8 93.0 94.3	PA Method 4637 21465 LowLimit 80 80 80	8021B: Volat Units: mg/k HighLimit 120 120 120	٢g	RPDLimit	Qual
Sample ID LCS-10217 MK Client ID: LCSS Prep Date: Analyte Benzene Toluene	SampT Batcl Analysis E Result 0.92 0.93	h ID: <b>R1</b> Date: 11 <u>PQL</u> 0.050 0.050	S 4637 1/7/2013 SPK value 1.000 1.000	R S SPK Ref Val 0 0	tCode: El RunNo: 1 SeqNo: 4 %REC 91.8 93.0	PA Method 4637 21465 LowLimit 80 80	8021B: Volat Units: mg/k HighLimit 120 120	٢g	RPDLimit	Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only. Р
- Reporting Detection Limit RL

1311254

WO#:

08-Nov-13

Page 3 of 3

ENVIRONMENTAL ANALYSIS TEL: 505-34	4901 Hawkins N Albuquerque, NM 8710 5-3975 FAX: 505-345-410 www.hallenvironmental.co	95 Samp	le Log-In Check List
Client Name: Animas Environmental Work Order N	umber: 1311254		RcptNo: 1
Received by/date: Ashley Gallegos 11/7/2013 9:41:	13 00 AM	AJ	
Completed By:         Ashley Gallegos         11/7/2013 9:46:           Reviewed By:         10         1/07/13	11 AM	A	
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes	No	Not Present V
2. Is Chain of Custody complete?	Yes 🗸	No	Not Present
3. How was the sample delivered?	Client		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No	NA
5. Were all samples received at a temperature of >0° C to 6.0	°C Yes ✔	No .	NA
6. Sample(s) in proper container(s)?	Yes 🗸	No	
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No i	
9. Was preservative added to bottles?	Yes 1	No 🖌	NA
10.VOA vials have zero headspace?	Yes [1]	No []]	No VOA Vials 🚀
11. Were any sample containers received broken?	Yes	No 🖌	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No	for pH: (<2 or >12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗸	No	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes	No	NA 🗸

Person Notified:	Date.					
By Whom:	Via:	eMail	Phone	Fax	In Person	
Regarding:			and the second			
Client Instructions:						

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Page 1 of 1

Client:     Construction     Construction     Construction     Construction     Construction       Milling Address:     Expanded     Expanded     Expanded     Expanded     Expanded       Milling Address:     Expended     Expanded     Expended     Expended     Expended       Milling Address:     Expended     Expended     Expended     Expended     Expended       Mil										10.00							j i i i
Project Name:     Project Name:     ADD Hawkins Kir     ADD Hawkins Kir       Fizzw.wojhr., J/M     2 Tyto I     Project Name:     4001 Hawkins Kir     ADD Hawkins Kir       Fizzw.wojhr., J/M     2 Tyto I     Project Name:     6001 Pasticles / 8003 PCB's     ADD Hawkins Kir       Fizzw.wojhr., J/M     2 Tyto I     Project Name:     0. U dxtw.     ADD Hawkins Kir     ADD Hawkins Kir       Fizzw.wojhr., J/M     2 Tyto I     Project Mansger:     0. U dxtw.     ADD Hawkins Kir     ADD Hawkins Kir       Fizzw.wojhr., J/M     2 Tyto I     D. U dxtw.     D. U dxtw.     ADD Hawkins Kir     ADD Hawkins Kir       Project Mansger:     D. U dxtw.     D. U dxtw.     D. U dxtw.     ADD Hawkins Kir     ADD Hawkins Kir       Project Mansger:     D. U dxtw.     Sampler:     J. U dxtw.     ADD Hawkins Kir     ADD Hawkins Kir       Roma     Bin     D. Other     Sampler:     Sampler:     J. U dxtw.     ADD Hawkins Kir       Roma     Matrix     Sampler:     J. U dxtw.     Sampler:     J. U dxtw.     ADD Hawkins Kir       Roma     Matrix     Sampler:     J. U dxtw.     Sampler:     J. U dxtw.     ADD Hawkins Kir       Roma     Matrix     Sampler:     J. U dxtw.     Sampler:     J. U dxtw.       Roma     Sampler:     J.			NON	mental Sentres, LLC	□ Standard		Same			2	Į	S	IS	5	BO	RA	TOR
ddfass:     Inc.     Co P     Srichi er     Sende     8 #2       Firmmaglion:     Inc.     Firmmaglion:     Nonect #:     Abuquerque, N       Firmmaglion:     Inc.     D. Wattier     Nonect #:     Abuduerque, N       Firmmaglion:     D. Wattier     Nonect #:     Abuduerque, N       Firmmaglion:     D. Wattier     Sampler:     Level 4 (Full Validation)       D. Unatime     Binter     Level 4 (Full Validation)     Nonect #:       D. Unatime     Binter     Level 4 (Full Validation)     Nonect #:       D. Unatime     Binter     Level 4 (Full Validation)     Nonect #:       D. Unatime     Mattix     Sampler:     Level 4 (Full Validation)       D. Unatime     Preservalue     Tippe     Anthe (East on Nice)       D. Unatime     Tippe     Tippe     Nonect #:     Anthe (East on Nice)       D. Dist     Sampler:     Lippe     Nonect #:     Anthe (East on Nice)       D. Dist     Sampler:     Lippe     Nonect #:     Anthe (East on Nice) </td <td></td> <td></td> <td></td> <td></td> <td>Project Name</td> <td></td> <td></td> <td></td> <td></td> <td>M</td> <td>ww.he</td> <td>llenvi</td> <td>ronme</td> <td>ental.</td> <td>MOO</td> <td></td> <td></td>					Project Name					M	ww.he	llenvi	ronme	ental.	MOO		
Талимидики, И.М. е 7401         Project #:           Fileware         Sarry - 324         Project #:           Fileware         Sarry - 324         Project #:           Fileware         Divertingent         Divertingent           Fileware         Divertingent         Divertingent           Project #:         Divertingent         Divertingent           Project #:         Divertingent         Divertingent           Diverting         Divertingent         Divertingent           Divertingent         Dive	Mailing Addr		4	r Comanche	CoP	Grenier t	æ		H 106	awkin			uenbr	due,	NM 8	7109	
Field         Sample         Project Manager:         Schurzzeit         Project Manager:           Field         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,           Project Manager:         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,         Di Uvatxan,           Project Manager:         Di Uvatxan,         Di Uvatxan,         Di Piezeervatus         Di		Farmin	aton,	MN	Project #:				Tel. 50	5-345	-3975	E .	ax 50	5-34	5410	1	
Fackt:         Project. Manage:         Project. Manage:         Barch         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Project. Manage:         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.         D. W.ext.sov.           Mark         Sample: R.e.         Represervative         Reservative         Recentrative           Mark         Sample: Recentrative         Recentrative         Recentrative         Recentrative           Mark         Sample: Recentrative         Type         MedV W         MedV W         MedV W           Mark         MedV W         MedV W         MedV W         MedV W         MedV W         MedV W           Mark         MedV W         MedV W         MedV W         MedV W	Phone #:	5-505	2-45	(823)							-	Analy		edne	21		
Bitlage:     D. Wattan:       and     D. Wattan:       and     D. Wattan:       and     D. Wattan:       Time     Matrix       Sampler:     S. Ly Lus       Time     Matrix       Sample:     S. Li       Solar     Sample:       Sample:     Sample:       Sample:	email or Fax	#			Project Mans	:Jec:	1	1211		- 1940 - 1947 - 1947				S.	-		
P     Container     Sample: S, Lyux       Time     Matrix     Sample: Request ID       Time     Matrix     Sample: Request ID       Time     Matrix     Matrix       Time     Matrix     Sample: Request ID       Time     Matrix     Matrix       Time     Matrix     Matrix       Time     Matrix     Matrix       Time     Matrix       Time     Matrix <td>QA/QC Packa</td> <td>ge:</td> <td>U.</td> <td>Level 4 (Full Validation)</td> <td>D.W</td> <td>atson</td> <td></td> <td>instance i</td> <td></td> <td></td> <td>(SMIS</td> <td></td> <td></td> <td>ROA ZI</td> <td></td> <td>(0.0)</td> <td></td>	QA/QC Packa	ge:	U.	Level 4 (Full Validation)	D.W	atson		instance i			(SMIS			ROA ZI		(0.0)	
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Time     Matrix     Sample Request ID     Container     Preservative       Type     Type     Type     Type     Type       Type </td <td>D EDD (Typ</td> <td>(e)</td> <td></td> <td></td> <td></td> <td>perciption</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>_</td> <td>-</td> <td></td> <td></td> <td></td>	D EDD (Typ	(e)				perciption			-				_	-			
IOS3         Sill         Sc-J         Mean Letton         Mean Letton <td>Date</td> <td></td> <td>, Lix</td> <td>Sample Request ID</td> <td>Container Type and #</td> <td>Preservative Type</td> <td>HEALING</td> <td></td>	Date		, Lix	Sample Request ID	Container Type and #	Preservative Type	HEALING										
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#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5	Sa	anta F	e, NM 875	05					side of form
			Rele	ease Notifi	catio	n and Co	orrective A	ction	1			
						<b>OPERA</b> '	FOR		🗌 Initia	ıl Report	$\boxtimes$	Final Report
Name of Co	mpany B	urlington Res	sources 🗸			Contact Ke	nny Davis					
		<sup>th</sup> St, Farmin		[		Telephone 1	No.(505) 599-40	)45				
Facility Nat	ne: Greni	er B 2 🗸				Facility Typ	e: Gas Well					
Surface Ow	ner Feder	ล่ไ√		Mineral (	Owner	Federal			Lease N	lo.NM-035	561	
Surface on						N OF RE			1			
Unit Letter	Section	Township	Dongo	Feet from the	a geographic a constant	h/South Line	Feet from the	East/	West Line	County		
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Was Immedi		Given?				If YES, To						
		L	Yes	] No 🛛 Not R	Required							
By Whom? 1						Date and I						
Was a Water N/		ched?	□ Ve	s 🛛 No		IF YES, V N/A	olume Impacting	the Wat	ercourse.			
		npacted, Desci										
Describe Ca N/A	use of Prob	lem and Reme	edial Actic	n Taken.*							a)	
BGT Closu	re: NO RE		J <mark>ND UPO</mark>	N REMOVAL								
regulations a public health should their or the enviro	all operators or the env operations onment. In	s are required ironment. Th have failed to	to report a e acceptan adequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and	release oort by remedi	notifications a the NMOCD r ate contamina	/ knowledge and u and perform corre- narked as "Final R ion that pose a the ve the operator of	ctive ac Report" reat to g	tions for rel does not rel ground wate	eases which ieve the ope r, surface w	n may e erator o rater, hu	endanger of liability uman health
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Printed Nam	e Kenny I	Davis				Approved by	V District Supervis	sor:				
Title: Staff						Approval Da	ate:		Expiration	Date:		
			1990 I 1920									
E-mail Add	ress: Kenny	r.davis@con	ocophillip	s.com		Conditions of	of Approval:			Attached	d 🗌	
Date: 12/8/	14 Phone	e: (505) 599-4	045									

\* Attach Additional Sheets If Necessary



