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

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

Form C-144 Revised June 6, 2013

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

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

Pit.	Bel	low-	Grade	Tank.	or

13637 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method
Modification to an existing permit/or registration
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request ease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance
Operator: ConocoPhillips Company OGRID #: 217817
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: <u>Hamner 5</u>
API Number: <u>30-045-11718</u> OCD Permit Number:
U/L or Qtr/Qtr F (SENW) Section 28 Township 29N Range 9W County: San Juan
Center of Proposed Design: Latitude <u>36.699362</u> <u>N</u> Longitude <u>-107.786918</u> <u>W</u> NAD: □1927 ☑ 1983
Surface Owner: Federal State Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of 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, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify
20

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <u>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accommendation are provided below.</u> Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ 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	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	cuments are
A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
	e documents are
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	Fluid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NIM Office of the State Engineer in WATERS detelored Visual inspection (contification) of the proposed site.	☐ Yes ☐ No
- 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.	165 [100
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	
	☐ 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 	al Yes No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the close by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	15.17.11 NMAC of 19.15.17.11 NMAC
17. Operator Application Certification: Liberally certify that the information submitted with this application is true converte and complete to the best of my brouledge of	nd ballaf
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge are	
Name (Print): Title:	
Signature: Date:	<u> </u>
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment of the Composition	
THE CONTROL OF PERMIT NUMBER:	
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and subm The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please of section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 02/05/2	do not complete this
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and subm The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	do not complete this

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

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

Lease Name: Hamner 5 API No.: 30-045-11718

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

General Plan:

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

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. BR shall notify the division of its results on form C-141.

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

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

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

A release was not determined for the above referenced well.

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

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

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

Notification of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

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. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 11 will be accomplished per the above reference stipulations on reported upon completion.

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 (Not Available)

Closure documentation was provided as soon as possible.

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

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

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

Oil Conservation Division

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						OPERA'	ΓOR		☐ Initi	ial Report	\boxtimes	Final Repo
				il & Gas Compar	ny		ystal Walker					
Address 340			gton, NM				No.(505) 326-9	837		1120		
Facility Nar	ne: Hamn	er 5				Facility Typ	e: Gas Well					
Surface Ow	ner Federa	al		Mineral O)wner	Federal			API No	0.30-045-1	1718	
				LOCA	OITA	N OF RE	LEASE					
Unit Letter F	Section 28	Township 29N	Range 9W	Feet from the 1580	North	/South Line North	Feet from the	Constitution of the Consti	Vest Line Vest	County San Juan		
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							e <u>-107.815697</u>					
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	whom? Is a Watercourse Reached? Watercourse was Impacted, Describe Fully.*						Release Iour of Occurren	00		Recovered Hour of Dis	COVATU	
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Was Immedia	ate Notice C		_	_		If YES, To	Whom?					
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By Whom?						Date and F						
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regulations al public health	as encount a Affected a fy that the in l operators or the envir	and Cleanup A	Action Tak	is true and compled/or file certain rece of a C-141 repo	elease i	notifications are ne NMOCD m	nd perform corre arked as "Final F	ctive acti Report" de	ons for rel	leases which ieve the ope	may er	ndanger f liability
	nment. In a	ddition, NMO	CD accep	investigate and retance of a C-141 i				responsi	bility for c	compliance v	with any	
Printed Name	: Crystal W	Valker				Approved by	Environmental S	Specialist	6	avone	7	
Title: Regula	atory Coor	dinator				Approval Dat	e: 19619	05 I	Expiration	Date:		
E-mail Addre Date: 11/2, Attach Addit	3/15	Phone: (505) 326-983	7		Conditions of	Approval:			Attached		



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

OrderNo.: 1510E46

November 06, 2015

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

RE: COPC Hamner 5

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/30/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1510E46

Date Reported: 11/6/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: BGT S-1

Project: COPC Hamner 5

Collection Date: 10/29/2015 10:12:00 AM

Lab ID: 1510E46-001

Matrix: SOIL Received Date: 10/30/2015 7:00:00 AM

		Quai	Units	Dr	Date Analyzed	Batch
					Analyst:	том
ND	19		mg/Kg	1	11/2/2015	22098
					Analyst:	LGT
35	30		mg/Kg	20	11/4/2015 12:42:26 PM	22180
E ORGANIC	s				Analyst:	KJH
ND	9.8		mg/Kg	1	11/3/2015 12:54:00 PM	22117
140	70-130	S	%REC	1	11/3/2015 12:54:00 PM	22117
SE .					Analyst:	NSB
ND	4.8		mg/Kg	1	11/2/2015 10:43:41 AM	22101
88.3	75.4-113		%REC	1	11/2/2015 10:43:41 AM	22101
					Analyst:	NSB
ND	0.048		mg/Kg	1	11/2/2015 10:43:41 AM	22101
ND	0.048		mg/Kg	1	11/2/2015 10:43:41 AM	22101
ND	0.048		mg/Kg	1	11/2/2015 10:43:41 AM	22101
ND	0.095		mg/Kg	1	11/2/2015 10:43:41 AM	22101
106	80-120		%REC	1	11/2/2015 10:43:41 AM	22101
	35 E ORGANIC ND 140 GE ND 88.3 ND ND ND ND ND	35 30 E ORGANICS ND 9.8 140 70-130 GE ND 4.8 88.3 75.4-113 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.095	35 30 E ORGANICS ND 9.8 140 70-130 S SE ND 4.8 88.3 75.4-113 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.095	35 30 mg/Kg E ORGANICS ND 9.8 mg/Kg 140 70-130 S %REC BE ND 4.8 mg/Kg 88.3 75.4-113 %REC ND 0.048 mg/Kg	35 30 mg/Kg 20 E ORGANICS ND 9.8 mg/Kg 1 140 70-130 S %REC 1 SE ND 4.8 mg/Kg 1 88.3 75.4-113 %REC 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1	ND 19 mg/Kg 1 11/2/2015 Analyst: 35 30 mg/Kg 20 11/4/2015 12:42:26 PM E ORGANICS ND 9.8 mg/Kg 1 11/3/2015 12:54:00 PM 140 70-130 S %REC 1 11/3/2015 12:54:00 PM SE ND 4.8 mg/Kg 1 11/2/2015 10:43:41 AM 88.3 75.4-113 %REC 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM ND 0.048 mg/Kg 1 11/2/2015 10:43:41 AM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1510E46

06-Nov-15

Client:

Animas Environmental

Project:

COPC Hamner 5

Sample ID MB-22180

Sample ID LCS-22180

Prep Date: 11/4/2015

LCSS

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22180

RunNo: 30017

Units: mg/Kg

Analyte

Prep Date: 11/4/2015

Analysis Date: 11/4/2015

SeqNo: 914569

HighLimit

Chloride

Result ND 1.5

SPK value SPK Ref Val %REC LowLimit

%RPD

SampType: LCS

Batch ID: 22180

PQL

TestCode: EPA Method 300.0: Anions

RunNo: 30017

Units: mg/Kg

Client ID:

Analysis Date: 11/4/2015

SeqNo: 914570

HighLimit

RPDLimit

RPDLimit

Analyte

SPK value SPK Ref Val

92.2

%RPD

Qual

0

Page 2 of 6

15.00

Chloride

14

1.5

%REC

LowLimit

110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

- E Value above quantitation range
- Reporting Detection Limit
- Analyte detected in the associated Method Blank
- Analyte detected below quantitation limits
- Sample pH Not In Range

Hall Environmental Analysis Laboratory, Inc.

WO#:

1510E46

06-Nov-15

Client:

Animas Environmental

Project:

COPC Hamner 5

Sample ID MB-22098

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 22098

PQL

RunNo: 29946

Prep Date: 10/30/2015 Analysis Date: 11/2/2015

Result

SeqNo: 912007

Units: mg/Kg

Analyte

HighLimit

RPDLimit

Qual

Petroleum Hydrocarbons, TR

ND 20

TestCode: EPA Method 418.1: TPH

%RPD

Sample ID LCS-22098

SampType: LCS

RunNo: 29946

Client ID: Prep Date: 10/30/2015

LCSS

Batch ID: 22098

Units: mg/Kg

Analyte

Analysis Date: 11/2/2015

SeqNo: 912008

0

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**

Petroleum Hydrocarbons, TR

PQL 20

SPK value SPK Ref Val 100.0

%REC 105

LowLimit 83.6

TestCode: EPA Method 418.1: TPH

HighLimit 116

Qual

Sample ID LCSD-22098

Client ID: LCSS02

SampType: LCSD Batch ID: 22098

Result

100

RunNo: 29946

Units: mg/Kg

Prep Date: 10/30/2015

Analysis Date: 11/2/2015

20

SeqNo: 912009

HighLimit %RPD **RPDLimit**

Qual

Analyte Petroleum Hydrocarbons, TR Result PQL

110

SPK value SPK Ref Val %REC LowLimit

100.0

116 1.37

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Page 3 of 6

- P Sample pH Not In Range
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1510E46

06-Nov-15

Client:

Animas Environmental

Project:

COPC Hamner 5

Sample ID MB-22117	SampType: MBLK			Tes	tCode: El	ode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batc	h ID: 22	117	F	RunNo: 2	9954					
Prep Date: 11/2/2015	Analysis [Date: 1	1/3/2015	8	SeqNo: 9	12719	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	12		10.00		125	70	130	167			
Sample ID LCS-22117	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS	Batc	h ID: 22	117	F	RunNo: 2	9954					
Prep Date: 11/2/2015	Analysis [Date: 1	1/3/2015	8	SeqNo: 9	12857	Units: mg/K	(g			
Property of the second of the					11222		Libertal instit	O/ DDD	DDDI imit	0 1	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte Diesel Range Organics (DRO)	Result 59	PQL 10	SPK value 50.00		%REC 118	57.4	139	%RPD	RPDLIMIT	Quai	

Sample ID 1510E46-001AN	IS Samp	Type: MS	3	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BGT S-1	Batc	h ID: 22	117	F	RunNo: 2	9954				
Prep Date: 11/2/2015	Analysis [Date: 11	1/3/2015	5	SeqNo: 9	12859	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	31.2	162		==	
Surr: DNOP	6.6		5.000		132	70	130			S

Sample ID	1510E46-001AMSD	Samplyp	e: M	SD	les	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BGT S-1	Batch II): 22	117	F	RunNo: 2					
Prep Date: 11/2/2015		Analysis Date: 11/3/2015			SeqNo: 912902			Units: mg/k			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	59	9.5	47.48	0	124	31.2	162	1.11	31.7	
Surr: DNOP		6.5		4.748		136	70	130	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1510E46

06-Nov-15

Client:

Animas Environmental

Project:

COPC Hamner 5

Sample ID MB-22101

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 22101

RunNo: 29948

PQL

5.0

Prep Date: 10/30/2015 Analysis Date: 11/2/2015

SeqNo: 912089

Units: mg/Kg

Analyte

SPK value SPK Ref Val

Qual

ND

%REC LowLimit HighLimit

Gasoline Range Organics (GRO) Surr: BFB

870

Result

1000

86.8

75.4

RPDLimit

Sample ID LCS-22101

SampType: LCS Batch ID: 22101 TestCode: EPA Method 8015D: Gasoline Range RunNo: 29948

113

Client ID: Prep Date: 10/30/2015

LCSS

Analysis Date: 11/2/2015

SeqNo: 912090 %REC

Units: mg/Kg HighLimit

%RPD

%RPD

Qual

Gasoline Range Organics (GRO)

Analyte

PQL Result 5.0

25.00

104 94.3

79.6

122

RPDLimit

Surr: BFB

26 940

1000

SPK value

0

SPK Ref Val

75.4

LowLimit

113

Qualifiers:

H

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- p Sample pH Not In Range
- Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1510E46

06-Nov-15

Client:

Animas Environmental

Project:

COPC Hamner 5

Sample ID MB-22101	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch ID: 22101 Analysis Date: 11/2/2015			F	RunNo: 2	9948					
Prep Date: 10/30/2015				S	SeqNo: 9	12121	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050							100		
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120				

Sample ID LCS-22101	SampType: LCS Batch ID: 22101 Analysis Date: 11/2/2015			TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS				F									
Prep Date: 10/30/2015				5	SeqNo: 9	12122	Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.1	0.050	1.000	0	112	80	120						
Toluene	1.0	0.050	1.000	0	101	80	120						
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120						
Xylenes, Total	3.0	0.10	3.000	0	99.2	80	120						
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120						

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Animas Environmental	Work Order Number	r: 1510E46		RcptNo: 1	
Received by/date:	10/30/15				
Logged By: Lindsay Mangin	10/30/2015 7:00:00 A	М	July Hago		
Completed By: Lindsay Mangin	10/30/2015 9:20:47 A	М	Andy Harry		
Reviewed By:	10/30/15		000		
Chain of Custody	10/10/12				
Custody seals intact on sample bottlet	37	Yes 🗌	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
Was an attempt made to cool the san	nples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temper	rature 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 🗌		
9. Was preservative added to bottles?		Yes	No 🗸	NA 🗆	
10. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers received	l broken?	Yes	No 🗸		
				# of preserved bottles checked	
12. Does paperwork match bottle labels?	disk.	Yes 🗸	No 🗌	for pH: (<2 or	>12 unless noted
(Note discrepancies on chain of custo 13. Are matrices correctly identified on Cr		Yes 🗹	No 🗌	Adjusted?	
14, Is it clear what analyses were request		Yes 🗸	No 🗆		
15. Were all holding times able to be met	?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization	1.)				
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:					
Client Instructions:					
17. Additional remarks:					
40.0.1.14					
18. Cooler Information Cooler No │ Temp °C │ Condition	n Seal Intact Seal No	Seal Date	Signed By		
1 3.6 Good	Yes	Jour Dans			

Client: Animas Environmental Services, LLC				X Standard	⊓ Rusi	,									OR/			,			
				Project Name:												110					
Mailing Ad	dress:	604 W	Pinon St.	COPC Hamner 5 Project #:					www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												
			gton, NM 87401						Tel. 505-345-3975 Fax 505-345-4107												
Phone #: 505-564-2281 Email or Fax#: eskyles@animasenvironmental.com				Project Manager:						Lina	А	nalys	is Re	equest	dire						
QA/QC Pac					E. Skyles					0					1 1						
X Standar	d		☐ Level 4 (Full Validation)						8	1					1					
Accreditation:				Sampler.						8015 (GRO/DRO)	- 8										
□ NELAP □ Other			On Ice					0	0								S				
<u> </u>) 	T		Compactions			18	18.1	300.	301				İ				ځ			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - 8021B	TPH - EPA 418.1	Chlorides - 300.0	TPH - EPA								Air Bubbles (Y or N)			
10-29-15	1012	SOIL	BGT S-1	2 - 4 oz.	cool	-001	Х	Х	Х	Х											
-											+			+	+						
											1										
											+	+		+	+	+	+	-			
																\perp					
		140										-			+	+	+				
		E5ye.f				To the state of			-1	-1											
a frag			ETTERNE DE LES ME				=							all (
Date:	Time: [919]	Relinquish	Mon	Received by: Date Time 1969				Remarks: Bill to Conoco Phillips WO # Supervisor: Ervin Wyckoff USERID: MCINNSK													
1929/15	1941	Chr	st Wall	10/50/15 0700					Area: Ordered by:												
,	f necessary,	samples subn	nitted to Hall Environmental may be su	bcontracted to other a	ccredited laborator	ies. This serves as notice of	this po	ossibili	ty. An	y sub-c	ontracted	data w	ill be cle	early notal	ed on the	analytic	al report				



