District T 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

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

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

Pit, Below-Grade Tank, or

	Fit, below-Glade Talik, of	
Propo	sed Alternative Method Permit or Closure Plan Appli	cation
13 6 73 Propo Type of action: 45-34876	☐ Below grade tank registration ☐ Permit of a pit or proposed alternative method	OIL CONS. DIV DIST. 3
45-34876	Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration	DEC 1 5 2015
	Closure plan only submitted for an existing permitted or non-permitted	ed pit, below-grade tank,
or proposed alter		
	ase submit one application (Form C-144) per individual pit, below-grade tank or	
	equest does not relieve the operator of liability should operations result in pollution of su the operator of its responsibility to comply with any other applicable governmental auth	
l.		
Operator: ConocoPhillips Compa	ny OGRID #:217817	
Address: PO BOX 4289, Farmir	ngton, NM 87499	
Facility or well name: Mudge B 10	00S	
API Number: 30-45-34876	OCD Permit Number:	
U/L or Qtr/QtrI (NESE)	Section 21 Township 31N Range 11W County: San .	Juan
Center of Proposed Design: Latitud	de <u>36.88091 °N</u> Longitude <u>-107.98980 °W</u> NAD: □1927 ⊠ 19	83
Surface Owner: Federal Stat	e ⊠ Private ☐ Tribal Trust or Indian Allotment	
2		
☐ Pit: Subsection F, G or J of 1	9.15.17.11 NM	
Temporary: Drilling Works	over	
☐ Permanent ☐ Emergency ☐ C	Cavitation P&A Multi-Well Fluid Management Low Chloride I	Orilling Fluid yes no
	:: Thickness mil _ LLDPE _ HDPE _ PVC _ Other	
☐ String-Reinforced		
	ory Other Volume:bbl Dimensions: L	x W x D
3. Below-grade tank: Subsection	on I of 19.15.17.11 NMAC	
	bbl Type of fluid: Produced Water	
Tank Construction material:		THE DESIGNATION OF THE PARTY OF
	ak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-o	off
☐ Visible sidewalls and liner ☐		
	mil ☐ HDPE ☐ PVC ☒ Other LLDPE	
4. Alternative Method:		
	s required. Exceptions must be submitted to the Santa Fe Environmental Bureau o	office for consideration of approval
	s required. Exceptions must be submitted to the Santa re Environmental Bareau o	mee for consideration of approval.
5. Fancing: Subsection D of 10 15 17	7.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
		at wasidawaa aabaal baasital
institution or church)	to strands of barbed wire at top (Required if located within 1000 feet of a permanent	u residence, school, nospital,
	f barbed wire evenly spaced between one and four feet	
☐ Alternate. Please specify	the same of the sa	三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二

28 1/6

Page 1 of 6

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	4.4
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Uariance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accommendation are provided below. 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 ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 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). Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, sechool, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site, Aerial photo, Satellite image Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map	Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
or playa lake (measured from the ordinary high-water mark). Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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: Within 500 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). Visual inspection (certification) of the proposed site: Within 500 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: 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. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildl	Temporary Pit Non-low chloride drilling fluid	100
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 used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Welland Ide	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
watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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 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 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 No Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application. Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of 19.15.17.1 NMAC Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 NMAC Operating and Maintenance Demonstrations - based upon the appropriate requirements of 19.15.17.1 NMAC Operating and Maintenance Plan - based upon the app	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
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes No No No No No No No N	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 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 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. Not Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Ves	Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Stiting 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 The plan - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number: "In Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: Operating and Maintenance Plan - based upon the appropriate requirem	Permanent Pit or Multi-Well Fluid Management Pit	Treatment of
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Personal Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Sting 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 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based upon the appropriate requirements of 19.15.17.12 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of	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
initial application. NM Office of the State Engineer - iWATERS database search; 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
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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 documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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	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 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	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 documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC		
Previously Approved Design (attach copy of design) API Number: or Permit Number:	Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
	☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	The state of the

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
### Author Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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	
	LAMBER CO.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 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
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	The state of the state of

 Written confirmation or verification from the municipality; Written approval obtained from the municipality 	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ef.
Name (Print): Title:	
Signature: Date:	
Signature: Date: e-mail address: Telephone:	
	the closure report.
e-mail address: Telephone:	the closure report.
e-mail address: Telephone:	the closure report. complete this

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is belief. I also certify that the closure complies with all applicable closure requirements an	
Name (Print): Crystal Walker Title: Regulatory Coordinator	
Signature: Solal Walker	Date: 12 14 2015
e-mail address:crystal.walker@cop.com Telephone: (505) 326-9837	

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: Mudge B 100S API No.: 30-045-34876

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:

COPC 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, COPC 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.

COPC 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.

COPC 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 COPC 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.

COPC 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.

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 COPC or the division determines that a release has occurred, then COPC 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 COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

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

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

Notification is attached.

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

The closure process notification to the landowner was sent via certified mail. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

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

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

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

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

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

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

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

Debrick, Danna (PAC.)

From:

Busse, Dollie L

Sent:

Monday, April 06, 2015 1:42 PM

To:

Cory.Smith@state.nm.us; Brandon.Powell@state.nm.us

Cc:

Journey, Denise D; Busse, Dollie L

Subject:

Mudge B 100S (3004534876) - 72 Hour Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: 4/9/15

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

Well Name:

Mudge B 100S

API#:

3004534876

Location:

I (NESE), Sec. 21, T31N, R11W

Footages:

1333' FSL & 670' FEL

Operator:

CoP

Surface Owner: BLM

Dollie L. Busse | Staff Regulatory Technician | ConocoPhillips | San Juan Business Unit | P.O. Box 4289 | Farmington, NM 87499 | Office: 505-324-6104 | Cell: 505-215-3069 | E-mail: dollie.l.busse@cop.com



ConocoPhillips Company
REFS-PTRRC – San Juan Business Unit
Lisabeth Jones
3401 East 30th Street
Farmington, NM 87402
Telephone: (505) 326-9558
Facsimile: (505) 324-6136
lisabeth.s.jones@conocophillips.com

VIA REGULAR MAIL

November 21, 2014

Paul Bandy 388 County Road 2900 Aztec, NM 87410

Subject:

P&A Surface Entry Notice

Mudge B 100S

NESE Section 21, T31N, R11W San Juan County, New Mexico

Dear Grazing Permittee:

ConocoPhillips Company is hereby notifying you that we will be performing rig operations on the subject well located on your BLM grazing allotment. The rig event is tentatively scheduled for April 16, 2015.

If you have any questions regarding this work, please call the PTRRC hotline at (505) 324-6111 within five (5) days of receiving this notice.

Sincerely,

Lisa Jones
Lisa Jones

PTRRC Associate

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

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

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		onocoPhillips					Contact Crystal Walker Telephone No.(505) 326-9837								
		h St, Farmin	gton, NN	Λ			-			337	7.11				
acility Na	me: Mudge	e B 100S]	Facility Typ	pe: Gas	Well						
Surface Ov	ner Fee			Mir	neral O	wner B	BLM (SF-0	78096)			API No	0.30	-045-34	876	
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Animas Environmental Services, LLC



May 6, 2015

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**

Mudge B #100S

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) Mudge B #100S, 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 - Mudge B #100S Legal Description - NE¼ SE¼, Section 21, T31N, R11W, San Juan County, New Mexico Well Latitude/Longitude - N36.88090 and W107.98981, respectively BGT Latitude/Longitude - N36.88093 and W107.99004, respectively Land Jurisdiction - Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, April 2015

1.2 **NMOCD** Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases

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

> 1911 Main, Ste 280 Durango, CO 970-403-3084

(August 1993), the location was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A Pit Closure (C-144) form dated June 2007 for the Aztec A #100, located 1,530 feet east and 25 feet lower in elevation, 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: An unnamed wash located approximately 260 feet northwest of the location discharges to the wash in Bohanan Canyon located 595 feet west of the location. (10 points)

1.3 BGT Closure Assessment

AES was initially contacted by Ralph Sloane, CoP representative, on April 7, 2015, and on April 8, 2015, Emilee Skyles of AES mobilized to the location. AES personnel collected one five-point soil sample composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner.

2.0 Soil Sampling

On April 8, 2015, AES personnel conducted field sampling and collected one 5-point composite (SC-1) from below the BGT. Soil was collected from approximately 0.5 feet below the former BGT. Soil sample SC-1 was field screened for volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chloride, and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

A portion of SC-1 was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil sample SC-1 was also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's

Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.1.3 Chlorides

Soil sample 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 USEPA Method 8021B;
- TPH per USEPA Method 418.1; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM were measured at 0.4 ppm in SC-1. Field TPH concentrations were reported at 26.6 mg/kg. The field chloride concentration was 80 mg/kg. Field sampling results are summarized in Table 1 and presented on Figure 2. The AES Field Sampling Report is attached.

Table 1. Soil Field Sampling VOCs, TPH, and Chloride Results
Mudge B #100S BGT Closure, April 2015

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)		100	250
SC-1	4/8/15	0.5	0.4	26.6	80

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.249 mg/kg, respectively. TPH concentrations were reported at less than 20 mg/kg. 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. The laboratory analytical report is attached.

Table 2. Soil Laboratory Analytical Results
Mudge B #100S BGT Closure, April 2015

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
	MOCD Action		0.2	50	100	250
SC-1	4/8/15	0.5	<0.050	<0.249	<20	<30

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations in SC-1 were below the NMOCD action level of 100 mg/kg, with a concentration reported at 26.6 mg/kg. Benzene and total BTEX concentrations were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg. Based on field sampling and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the Mudge B #100S.

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

Sincerely,

David J. Reese

Environmental Scientist

Elizabeth V MiNdly

Dail g Reve

Elizabeth McNally, P.E.

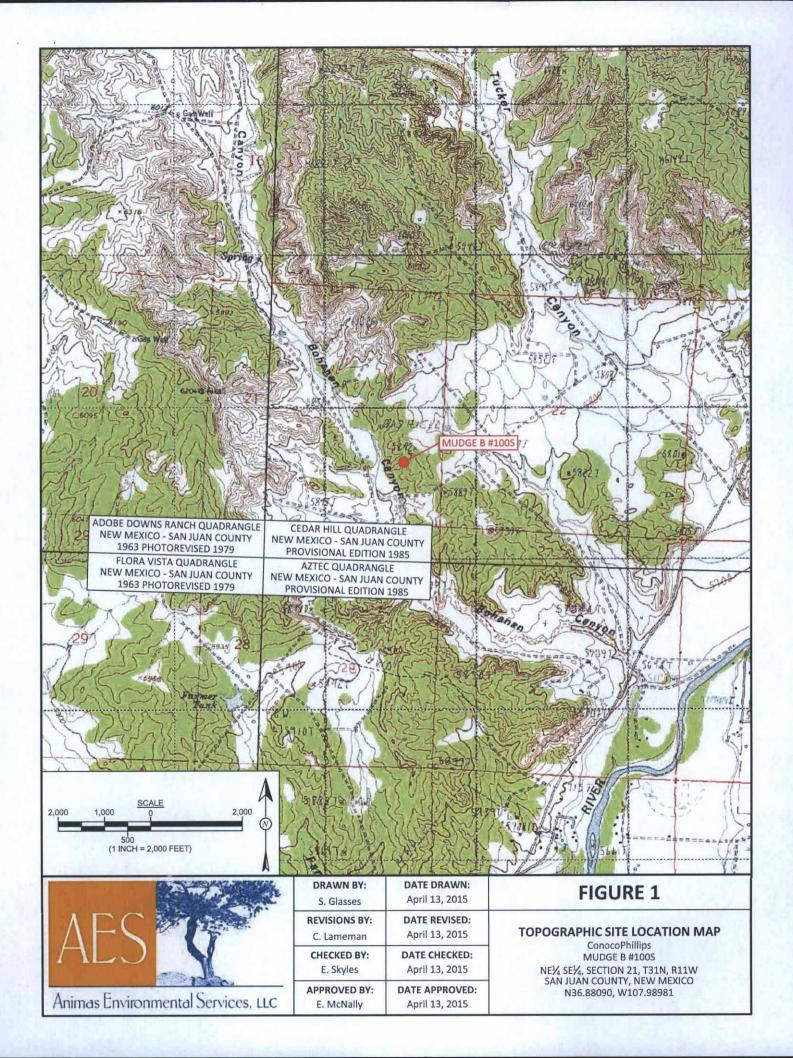
Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, April 2015 AES Field Sampling Report 040815

Hall Analytical Report 1504405

Crystal Tafoya Mudge B #100S BGT Closure Report May 6, 2015 Page 5 of 5

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THE STREET	Fie	ld Samplir	g Result	's	
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NI	MOCD ACTIO	ON LEVEL	-	100	250
SC-1	4/8/15	0.5	0.4	26.6	80
SC-1 IS A 5-P	DINT COMP	OSITE SAN	APLE.	The same	-

	Laborato	ry Analytica	al Results		
Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
D ACTION LE	VEL	0.2	50	100	250
4/8/15	0.5	<0.050	<0.249	<20	<30
	Sampled D ACTION LE	Date Depth Sampled (ft)	Date Sampled (ft) Benzene (mg/kg) CD ACTION LEVEL 0.2	Date Sampled (ft) Benzene (mg/kg) BTEX (mg/kg) D ACTION LEVEL 0.2 50	Date Sampled Depth (ft) Benzene (mg/kg) Total BTEX (mg/kg) TPH (mg/kg) D ACTION LEVEL 0.2 50 100





1	DRAWN BY:	DATE DRAWN:
1	S. Glasses	April 13, 2015
Ī	REVISIONS BY:	DATE REVISED:
	C. Lameman	April 13, 2015
Ī	CHECKED BY:	DATE CHECKED:
	E. Skyles	April 13, 2015
Ì	APPROVED BY:	DATE APPROVED:
	E. McNally	April 13, 2015

AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
APRIL 2015
ConocoPhillips

FIGURE 2

MUDGE B #100S

NE¼ SE¼, SECTION 21, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

N36.88090, W107.98981

AES Field Sampling Report

Animas Environmental Services, LLC AES

Client: ConocoPhillips

Project Location: Mudge B #100S

Date: 4/8/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/8/2015	9:30	Composite	0.4	80	26.6	10:03	20.0	1	EMS

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Such Shu

^{*}Field TPH concentrations recorded may be below PQL.



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

April 14, 2015

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

FAX

RE: CoP Mudge B 100S

OrderNo.: 1504405

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/9/2015 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

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1504405

Date Reported: 4/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP Mudge B 100S

Lab ID: 1504405-001

Client Sample ID: SC-1

Collection Date: 4/8/2015 9:30:00 AM

Received Date: 4/9/2015 8:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1	4/11/2015 12:09:55 PM	18613
Toluene	ND	0.050	mg/Kg	1	4/11/2015 12:09:55 PM	18613
Ethylbenzene	ND	0.050	mg/Kg	1	4/11/2015 12:09:55 PM	18613
Xylenes, Total	ND	0.099	mg/Kg	1	4/11/2015 12:09:55 PM	18613
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	4/11/2015 12:09:55 PM	18613
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	4/13/2015 1:27:09 PM	18650
EPA METHOD 418.1: TPH					Analyst	JME
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/14/2015 12:00:00 PM	18606

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Sample pH Not In Range

RL Reporting Detection Limit

Page 1 of 4

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504405

14-Apr-15

Client: Project: Animas Environmental CoP Mudge B 100S

Sample ID MB-18650

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 18650

PQL

RunNo: 25488

Prep Date: 4/13/2015

Analysis Date: 4/13/2015

Units: mg/Kg HighLimit

Analyte

Result

SeqNo: 754866

%RPD

%RPD

RPDLimit Qual

Chloride

ND 1.5

Sample ID LCS-18650

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

4/13/2015

Batch ID: 18650

RunNo: 25488

Prep Date:

Analysis Date: 4/13/2015

SeqNo: 754867

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte

PQL

1.5

15.00

LowLimit

Chloride

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH Not In Range

Reporting Detection Limit

Page 2 of 4

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504405

14-Apr-15

Client: Project: Animas Environmental CoP Mudge B 100S

Sample ID MB-18606

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

Batch ID: 18606

RunNo: 25503

Prep Date: 4/9/2015 Analysis Date: 4/14/2015

20

SeqNo: 755191 Units: mg/Kg

PQL

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Petroleum Hydrocarbons, TR

ND

Sample ID LCS-18606

4/9/2015

SampType: LCS

Analysis Date: 4/14/2015

TestCode: EPA Method 418.1: TPH

Client ID: LCSS Batch ID: 18606

RunNo: 25503 SeqNo: 755192

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val 100.0

%REC 92.7

LowLimit 86.7

%RPD

%RPD

RPDLimit

Qual

Petroleum Hydrocarbons, TR

Prep Date:

20

TestCode: EPA Method 418.1: TPH

HighLimit 126

Qual

Sample ID LCSD-18606 Client ID: LCSS02

SampType: LCSD Batch ID: 18606

Analysis Date: 4/14/2015

RunNo: 25503 SegNo: 755193

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Analyte Petroleum Hydrocarbons, TR

Prep Date: 4/9/2015

98

PQL 20

SPK value SPK Ref Val 100.0

0

%REC 97.9

86.7

LowLimit

126 5.45

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Sample pH Not In Range

Reporting Detection Limit

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504405

14-Apr-15

Client: Project: Animas Environmental CoP Mudge B 100S

Sample ID MB-18613 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS Batch ID: 18613					RunNo: 25449							
Prep Date: 4/10/2015	Analysis I	Date: 4/	11/2015		SeqNo: 7	53332	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.050		Marie Aller			- 1	200	ALIV T			
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0	By-	1.000	4	100	80	120	1.15.17				
Sample ID LCS-18613	Samp	Type: LC	s	Tes		1 1 10						
Client ID: LCSS	Bato	h ID: 18	613	F	RunNo: 2	5449						
Prep Date: 4/10/2015	Analysis I	Date: 4/	11/2015	8	SeqNo: 7	53333	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	110	76.6	128					
	1.0	0.050	1.000	0	101	75	124					
Toluene	1.0						400					
	1.1	0.050	1.000	0	110	79.5	126					
Toluene Ethylbenzene Xylenes, Total			1.000 3.000	0	110	79.5 78.8	126					

Sample ID MB-18615	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 18	615	F	RunNo: 2	25449				
Prep Date: 4/10/2015	Analysis Date: 4/11/2015			5	SeqNo: 7	753339	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	4	1.000		105	80	120	VIEW N	TE VILLE	11 11 11

0 4 0 0 1		4 000		400	00	100			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 4/10/201	5 Analysis D	ate: 4/11/2015	S	eqNo: 7	53340	Units: %RE	C		
Client ID: LCSS	Batch	ID: 18615	R	unNo: 2	5449				
Sample ID LCS-1861	5 SampT	ype: LCS	Test	Code: El	PA Method	8021B: Volat	tiles		

Surr: 4-Bromofluorobenzene 1.1 1.000 108 80 120

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 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

Animas Environmental Work Order Number: 1504405 RootNo: 1 Client Name: ACO Received by/date: Logged By: **Lindsay Mangin** 4/9/2015 8:09:00 AM 4/9/2015 10:01:37 AM Completed By: **Lindsay Mangin** 04/09/15 Reviewed By: Chain of Custody Not Present Yes 1. Custody seals intact on sample bottles? No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes V No 🗌 NA . 4. Was an attempt made to cool the samples? NA 🗌 No Were all samples received at a temperature of >0° C to 6.0°C Yes V No Sample(s) in proper container(s)? Yes V No 🗌 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes V No 🗌 No V NA . 9. Was preservative added to bottles? Yes _ No VOA Vials Yes No | 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? Yes V No 🗌 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14. Is it clear what analyses were requested? Checked by: No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16 Was client notified of all discrepancies with this order? Yes [No 🗌 NA V Person Notified: Date | By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition | Seal Intact | Seal No | Seal Date Good Yes

Client:			nmental Services, LLC	X Standard Project Name:	□ Rush	1				AN	IAL	YS:	VIR IS L	ABC	RA		
Mailing Ad	dress:	604 W.	Pinon St			49	01 H							9			
			gton, NM 87401	Project #:	CoP Mudge E		4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107										
Phone #.	505-564	-2281									Aı	nalys	is Req	uest			N. Y
Email or Fa	ax#:			Project Manag	ger:												
QA/QC Pac X Standar	Christian		☐ Level 4 (Full Validation)		E. Skyles			186									
Accreditati	on:			Sampler:	E. Skyles			4									
□ NELAP		□ Other		On Ice:	M Yes	□ No			13								Ê
□ EDD (T	ype)			Sample Temp	erature:	110	_		300.0						ou l		ō
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - 8021B	TPH - 418.1	Chlorides - 30								Air Bubbles (Y or N)
4/8/15	9:30	Soil	SC-1	1 - 4 oz.	cool	-001	X	Х	Х								
	7													H		H	+
				17186													
松沙里里	0																
495.00		The state of	The second second second				170		6								
Date: 4/18/15 Date: 4/6/15	Time: 1718 Time: 1815	Relinquish	34L	Received by: All			Remarks: Bill to Conoco Phillips WO# 10375743 USER: KGARCIA Supervisor: Carlos Rey Area: 1 Ordered By: Ralph Sloane										

Mudge B #100S



