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

☐ <u>Alternative Method</u>:

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and

1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	District Office.		
	Loop System, Below-Grade Te Method Permit or Closure P	 -		
Type of action: Permit of a pit, Closure of a pit Modification to	closed-loop system, below-grade tank, o c, closed-loop system, below-grade tank, o an existing permit aly submitted for an existing permitted or	or proposed alternative method or proposed alternative method		
Instructions: Please submit one application (For		•		
Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its response.				
I.				
Operator: Williams Operating Co, I Address: PO Box 640 / 721 S Main				
Facility or well name: Rosa Unit 347 (repermitted as t				
API Number:30-039- 29780 _ 29783				
U/L or Qtr/Qtr F Section 11 Tow				
Center of Proposed Design: Latitude 36.914721				
Surface Owner: S Federal State Private Tribal 7	Trust or Indian Allotment			
2.		,		
☑ <u>Pit</u> : Subsection F or G of 19.15.17.11 NMAC				
Temporary: ⊠ Drilling ☐ Workover				
Permanent Emergency Cavitation P&A	MILIPPE THORE TRYC TO	sh ou		
	IMI METALE HAVE HAVE HAVE HOVE	iner		
Liner Scams: ⊠ Welded ⊠ Factory □ Other	Volume: <u>47,000</u> b	obl Dimensions: L 320' x W 70' x D 12'		
3.				
Closed-loop System: Subsection H of 19.15.17.11 N	MAC			
Type of Operation: P&A Drilling a new well Wintent	Vorkover or Drilling (Applies to activities whi	ich require prior approval of a permit or notice of		
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-	off Bins Other			
☐ Lined ☐ Unlined Liner type: Thickness	mil 🔲 LLDPE 🗌 HDPE 🗌 PVC 🗀	Other		
Liner Seams:		Other 728293037		
4. Below-grade tank: Subsection I of 19.15.17.11 NMA Volume:bbl Type of fluid: Tank Construction material:	ı.c	AS CONTROL AS		
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off				
☐ Visible sidewalls and liner ☐ Visible sidewalls only		अशिक्षाहर		
Liner type: Thickness mil HD	PE PVC Other			

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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)	поѕриш,
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet ☐ Alternate. Please specify As per BLM specifications	
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)	
- Working hispections (if fleeting to selecting is not physically reasible)	
8. 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 19.15.3.103 NMAC	
9. Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fc Environmental Bureau	office for
consideration of approval.	office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry	priate district pproval.
above-grade tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency. or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☐ No ☑ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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
	i
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ 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

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: or Permit Number:
Treviously Approved Design (attach copy of design) Art Number.
Closed-loop Systems 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) At Frameer. (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13.
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System 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 (Exceptions must be submitted to the Santa Fe Environmental Burcau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel T Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling		
facilities are required.	ygov eve annemnem y	
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on Yes (If yes, please provide the information below) No		vice and operations?
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate require Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 Site Reclamation Plan - based upon the appropriate requirements of Subsection G or	.15.17.13 NMAC	2
17. 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 provided below. Requests regarding changes to certain siting criteria may require admit considered an exception which must be submitted to the Santa Fe Environmental Burea demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guid	nistrative approval from the appropriate disti u office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ned from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ned from nearby wells	✓ Yes ☐ No☐ NA
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 obtain	ned from nearby wells	☐ Yes ☑ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significan lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	: watercourse or lakebed, sinkhole, or playa	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in exist - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		☐ Yes ☒ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than f watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, i - NM Office of the State Engineer - iWATERS database; Visual inspection (certific	n existence at the time of initial application.	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obta	·	☐ Yes ☒ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspe	ction (certification) of the proposed site	☐ 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 & Mi Society; Topographic map	neral Resources; USGS; NM Geological	☐ Yes 🛛 No
Within a 100-year floodplain FEMA map		☐ Yes ⊠ No
18. On Site Cleaner Plan Checklists (10.15.17.12 NIMAC) Instructions. Each of the follows:	wise it amo must be attached to the electrical	an Plana indicata
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the followally a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Subset Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subset Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cut Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of	nts of 19.15.17.10 NMAC ction F of 19.15.17.13 NMAC ate requirements of 19.15.17.11 NMAC ased upon the appropriate requirements of 19. NMAC atts of Subsection F of 19.15.17.13 NMAC ction F of 19.15.17.13 NMAC tings or in case on-site closure standards cannot 15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification: I hereby certify that the information submitted with this application is true, accur	ate and complete to the b	est of my knowledge and belief.	
Name (Print): Vanessa Fields	Title: EH & S	Coordinator	
Signature: Orasse	Date:	13010	
e-mail address: vanessa fields@williams.com	Telephone:	505-634-4209	
OCD Approval: Permit Application (including closure plan) Closure P	lan (only)	nditions (see attachment)	
// - 		Approval Date: <u>7/5/201</u>	
Title: Compliance Office	OCD Permit Number	·	
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.			
	Closure Complet	ion Date:	
22. Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alterna ☐ If different from approved plan, please explain.	ative Closure Method	Waste Removal (Closed-loop systems only)	
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drift two facilities were utilized. Disposal Facility Name:	lling fluids and drill cutti		
Disposal Facility Name:		it Number:	
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No			
Required for impacted areas which will not be used for future service and operate Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ions:		
24. Closure Report Attachment Checklist: Instructions: Each of the following it	ems must be attached to	the closure report. Please indicate, by a check	
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)			
On-site Closure Location: Latitude Longit	ude	NAD: 1927 1983	
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):	•	inted in the approved closure plan.	
Signature:			
e-mail address:	Telephone:		

Williams Production Co., LLC San Juan Basin: New Mexico Assets

Temporary Pit Design and Construction Plan Drilling/Completion and Workover

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction (D&C) of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workover of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard plan, a separate well specific D&C plan will be developed and utilized.

General Plan Requirements:

- 1. WPX will design and construct a temporary pit to contain liquids and solids associated with drilling, completion and workover of oil and gas wells which will prevent contamination of fresh water resources and protect public health and the environment.
- 2. Prior to excavation of the pit, topsoil will be stripped and stockpiled within the construction zone for later use during restoration.
- 3. WPX will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. This sign will list the operator on record, the location of the well site by unit letter/section/township/range, and emergency telephone number(s).
- 4. WPX shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts will be installed every 12 feet and corners shall be anchored utilizing a secondary T-post or similar bracing. Temporary pits will be fenced at all times excluding drilling/completion and/or workover operations when the rig is present on site, at which time the "front" side of the fence will be temporarily removed for operational purposes.
- 5. WPX shall construction the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to meet manufacturers' specifications and potential liner failure.
- 6. WPX shall construct the pit so that the slopes are no steeper than two horizontal to one vertical. Where steeper slopes are required due to surface owner and right-a-way restriction, an engineers certification of stability will be provided with the well pit application.
- 7. Pit well will be walked down by a crawler type tractor following construction and prior to liner installation.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp objects or irregularities can not be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench consistent with manufacturer's specifications and at least 18 inches deep.
- 11. WPX will minimize liner seams and orient them up and down, not across slope faces. Factory seams will be used whenever possible. Field seams will be overlapped per manufacturers' specifications. WPX will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides (secondary liner placed over the primary liner), and/or a manifold system.
- 13. The pit shall be protected from run-on by construction of diversion ditches around the location or around the perimeter of the pit in as necessary.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into the lined reserve pit.
- 16. Only the upper portion of the blow pit will be unlined as allowed in the Rule 19.15.17.11.F(11) NMAC.
- 17. WPX will modify this design if field and/or operating conditions do not effectively allow drainage of the blow pit and freestanding liquids pose a potential concern.

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Williams Production Co., LLC San Juan Basin: New Mexico Assets

Temporary Pit
Drilling/Completion and Workover

Type of action & rational

Transfer	r Drilling Pit to Completion/Workov Williams proposes to utilize the so workover/completion activities r the subject well into optimum pr minimize environmental impacts and associated greenhouse em Workover Rig to be mobilized wi	ame pit built to drill the well for noted in the well APD and no oduction. Utilization of the s and waste of resources (i.e issions, surface disturbance	ecessary to bring same pit will waste of fuel).
Transfei	r Drilling Pit from	to	
	(well no	ime)	
(we	ell name)	,	
•	As required by the Surface Owner BLM, USFS, Tribal), Williams is being multiple new wells. In these case all the new wells to be drilled. Usenvironmental impacts and was associated greenhouse emission permitted the common pit for each the pit since the first well has been Pit to be considered closed for fill Rig to be rig-up within six more	ig required to utilize the sames, Williams proposes to utilization of the same pit will ite of resources (i.e. waste ones, surface disturbance). ach well, and requests permen drilled and completed.	ne well pad for the same pit for minimize f fuel and Williams has hission to transfer
⊠ Extensio • •	As required by the Surface Own-BLM, USFS, Tribal), Williams cannot during Seasonal Closures and the requirements specified in the refinitiated as soon as the Seasonal 7-30-11 Due to Winter Closure	er and/or Surface Managing of conduct construction or si erefore cannot meet the clo erenced rule. Closure will be I Closure is lifted	g Agency (e.g. imilar activities osure
	 Surface Owner restriction and lin 	altation	

(Revised closure date)

Page 8 of 10

Transfer Plan

In accordance with Rule 19.15.17 NMAC, this Modification/Transfer (M/T) Plan describes the modifications to the Design and Construction (D&C), Operations and Maintenance (O&M) and Closure Plans for the transfer of a previously permitted Temporary Pit on a Williams Production Co, LLC (WPX) location in the San Juan Basin of New Mexico.

Page 9 of 10 Rosa Unit 600

This M/T plan will be followed in that case

D&C Plan:

 No proposed changes. Williams will comply with the original Design Plan. This will include ensuring that the original design of the pit is large enough to accommodate all of the fluids and solids.

O&M Plan:

- The pit is to be considered out-of-service for the purpose of drilling the referenced well.
- The pit status will be considered in-service during this transition to and during the scheduled workover/completion activities.
- Pit inspections during the period between drill-rigdown and workover/completion-rigup will be weekly.
- The fluid will be removed within 30 days after the completion of each process.
- Williams will conduct an inspection and take photo documentation no more than seven days prior to the pit being placed back into use.
- Williams will notify NMOCD district office 7-14 days prior to start of each process.
- If any mud and solids require removal to ensure the two-foot freeboard is maintained, it will be removed by use of a Supersucker® (or similar equipment that will not damage the liner) and disposed of offsite at Envirotech (Permit Number NM-01-0011).
- Williams will sample the contents of the pit after each process is completed for Benzene, BTEX, and TPH (only required for a pit used for multiple wells).
- No other modifications or changes to the operation and maintenance of the pit will take place.

Closure Plan:

- Due to the use of the pit for multiple processes the confirmation sampling will occur only after the contents have been stabilized to ensure a representative sample (only required for a pit used for multiple wells).
- Williams will submit the photo documentation and testing stated above with the C-144 closure.
- All APD #s and well names will be placed on the C-144 form when the closure form is filed.
- No additional proposed changes except as noted above, Williams will comply with the rest of the original Closure Plan.

Williams realizes this does not relieve them of any of the requirements of 19.15.17 NMAC.