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

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 provide a copy to the appropriate NMOCD District Office.

7882	Pit, Closed-Loop System, Below-Grade Tank, or				
Proposed Alternative Method Permit or Closure Plan Application					
Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method				
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit				

Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method						
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request						
Please 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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.						
Operator: Energen Resources Corporation OGRID #: 162928 RCVD MAR 30'11						
Address: 2010 Afton Place, Farmington, NM 87401 OIL COMS. DIV.						
Facility or well name: San Juan 32-5 Unit #101S						
API Number: 30 - 039 - 27263 OCD Permit Number:						
U/L or Qtr/Qtr P Section 23 Township 32N Range 06W County: Rio Arriba						
Center of Proposed Design: Latitude 36.96065 N Longitude 107.42025 W NAD: ☐1927 🗓 1983						
Surface Owner: Federal X State Tribal Trust or Indian Allotment						
2. X Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&A						
X Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other						
X String-Reinforced Liner Seams: ☐ Welded X Factory ☐ Other Volume: Volume: 1500 bbl Dimensions: L 155 x W 85 x D 10						
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other						
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil LLDPE HDPE PVC Other						
S. Alternative Method:						

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

6. Funcing: Subsection D of 19.15.17.11 NMAC (Applies to permanent nits, temporary nits, and below-grade tanks)					
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 4 ft high weld wire fence					
7. 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)					
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					
[X] 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.					
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.					
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the ap office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.				
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 X 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					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes X No				
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 X 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 X No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No				
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map					
Within a 100-year floodplain.	☐ Yes X 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 19.15.17.11 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) API Number: or Permit 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) API Number:					
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)					
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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC					
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: \[\int \text{Drilling } \[\int \text{Workover } \] Emergency \[\int \text{Cavitation } \] P&A \[\int \text{Permanent Pit } \] Below-grade Tank \[\int \text{Closed-loop System Alternative} \] Proposed Closure Method: \[\int \text{Waste Excavation and Removal } \] Waste Removal (Closed-loop systems only) \[\int \text{On-site Closure Method (Only for temporary pits and closed-loop systems)} \] \[\int \text{In-place Burial } \[\int \text{On-site Trench Burial } \] \[\int \text{Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)} \]					
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 G of 19.15.17.13 NMAC					

	or Closed-loop Systems That Utilize Above Gro fy the facility or facilities for the disposal of liquid					
facilities are required.		Disposal Facility Permit Number: NM-01-0011				
		Disposal Facility Permit Number: NM-01-0010B				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?						
Yes (If yes, please provide the information below) X No						
Instructions: Each siting or provided below. Requests re be considered an exception	on-site closure methods only: 19.15.17.10 NMA riteria requires a demonstration of compliance in egarding changes to certain siting criteria may rewhich must be submitted to the Santa Fe Environ which gare required. Please refer to 19.15.17.	the closure plan. Recommendatio equire administrative approval from nmental Bureau office for consider	the appropriate dis	trict office or may		
	feet below the bottom of the buried waste tate Engineer - iWATERS database search; USGS	; Data obtained from nearby wells		Yes X No		
	and 100 feet below the bottom of the buried waste tate Engineer - iWATERS database search; USGS			Yes X No		
	00 feet below the bottom of the buried waste. tate Engineer - iWATERS database search; USGS	; Data obtained from nearby wells		Yes □ No NA		
lake (measured from the ordi	ously flowing watercourse, or 200 feet of any othe inary high-water mark). Visual inspection (certification) of the proposed signs.	* *	, sinkhole, or playa	Yes X No		
	anent residence, school, hospital, institution, or che tertification) of the proposed site; Aerial photo; Sa		al application.	☐ Yes X No		
watering purposes, or within	f a private, domestic fresh water well or spring tha 1000 horizontal feet of any other fresh water well tate Engineer - iWATERS database; Visual inspec	or spring, in existence at the time o	f initial application.	☐ Yes X No		
adopted pursuant to NMSA 1	pal boundaries or within a defined municipal fresh 1978, Section 3-27-3, as amended. on or verification from the municipality; Written a		•	☐ Yes ☒No		
Within 500 feet of a wetland US Fish and Wildlin	fe Wetland Identification map; Topographic map;	Visual inspection (certification) of t	he proposed site	. Yes X No		
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division				☐ Yes Ⅺ·No		
Within an unstable area Engineering measur Society; Topographic	res incorporated into the design; NM Bureau of Go	cology & Mineral Resources; USGS	; NM Geological	Yes 🗓 No		
Within a 100-year floodplain - FEMA map				Yes X No		
On-Site Closure Plan Check by a check mark in the box, t	klist: (19.15.17.13 NMAC) Instructions: Each of the documents are attached.	of the following items must be attack	hed to the closure pla	n. Please indicate,		
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Yeroof, of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC 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 Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved) 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

19. '. Operator Application Certification: I hereby certify that the information submitted with this application is true, according to the content of the co	curate and complete to the best of my knowledge and belief.				
Name (Print):Stephen_Byers	Title: Drilling Engineer				
Signature: Stephen Buers	Date: 3/30/2011				
e-mail address: sbyers@energen.com	Telephone:				
20. OCD Approval: Permit Application (including closure plan)					
OCD Representative Signature: Branson Sell	·				
Title: <u>Euro/5 per</u>	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 Completion Date:					
Closure Method: Waste Excavation and Removal On-Site Closure Method Alterna If different from approved plan, please explain.	tive Closure Method				
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, at than two facilities were utilized. Disposal Facility Name:	drilling fluids and drill cuttings were disposed. Use attachment if more				
Disposal Facility Name:	Disposal Facility Permit Number:				
Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below)					
Required for impacted areas which will not be used for future service and oper Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ations:				
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) 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					
25.	· ·				
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):	Title:				
Signature:	Date:				
a mail address	Tolonhonou				



ENERGEN RESOURCES

Modify Existing Permit

San Juan 32-5 Unit #101S

Energen Resources would like to utilize a centrifuge and a small, rectangular steel catch tank in conjunction with the temporary pit that has already been approved for the San Juan 32-5 Unit #101S horizontal sidetrack. The shale shakers and the centrifuge will both be dumping drill cuttings into the steel catch tank. From there, the cutting will be dried and then dumped into the temporary reserve pit (only dry cuttings will be placed into the temporary pit) that has already been approved.