District L . '
1625 N. French Dr., Hobbs, NM 88240
District IL
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

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

5583 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				
Address: 2010 Afton Place, Farmington, NM 87401				
Facility or well name: Carracas 18B #1				
API Number: 30-039-30483 OCD Permit Number:				
U/L or Qtr/QtrO Section 18 Township 32N Range 04W County: Rio Arriba				
Center of Proposed Design: Latitude				
Surface Owner: X Federal  State  Private Tribal Trust or Indian Allotment				
2				
X Pit: Subsection F or G of 19.15.17.11 NMAC				
Temporary: Drilling 🗷 Workover				
Permanent Emergency Cavitation P&A				
X Lined ☐ Unlined Liner type: Thickness 20 mil				
Liner Seams: Welded X Factory Other Volume: 5000 bbl Dimensions: L 160 x W 60 x D 15				
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				
□ P. L				
Volume: bbl Type of fluid: OIL CONS. DIV. DIST. 3				
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 Visible sidewalls on Visible				
Secondary containment with leak detection    Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off				
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other				
Liner type: Thicknessmil				
5				
Alternative Method:				

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, scho institution or church)	ol, hospital,			
X Four foot height, four strands of barbed wire evenly spaced between one and four feet				
Alternate. Please specify				
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)				
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				
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 Bur consideration of approval.	reau 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 ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the applica 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 🗷 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	Yes No			
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				
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				
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				
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
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 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:			
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 an site closure), besed upon the requirements of Berggraph (3) of Subsection B of 19.15.17.9			
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:			
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 Leak Detection 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: \( \omega\) Drilling \( \omega\) Workover \( \omega\) Emergency \( \omega\) Cavitation \( \omega\) P&A \( \omega\) Permanent Pit \( \omega\) Below-grade Tank \( \omega\) Closed-loop System Alternative  Proposed Closure Method: \( \omega\) Waste Excavation and Removal			
Waste Removal (Closed-loop systems only)  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 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			

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, a	1 Steel Tanks or Haul-off Bins Only: (19.15.17.13. I Irilling fluids and drill cuttings. Use attachment if mor	NMAC) e than two		
facilities are required. Disposal Facility Name: D	isposal Facility Permit Number:			
Disposal Facility Name: D	isposal Facility Permit Number:			
Will any of the proposed closed-loop system operations and associated activities operations?	occur on or in areas that will not be used for future ser	vice and		
Yes (If yes, please provide the information below) No				
Required for impacted areas which will not be used for future service and operations — Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation Plan - based upon the appropriate requirements of Subsection — Site Reclamation — Site Reclamati	ate requirements of Subsection H of 19.15.17.13 NMA on I of 19.15.17.13 NMAC	AC .		
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may required be considered an exception which must be submitted to the Santa Fe Environmental American Section 19.15.17.10	ire administrative approval from the appropriate dist ental Bureau office for consideration of approval. Ju	rict office or may		
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; D	ata obtained 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; D	ata obtained from nearby wells	Yes X 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; D	ata obtained from nearby wells	X Yes □ No □ NA		
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 churc - Visual inspection (certification) of the proposed site; Aerial photo; Satel		Yes X No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspectio	spring, in existence at the time of initial application.	Yes X No		
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written appr		Yes 🗶 No		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Vi	sual 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-Min	ing and Mineral Division	☐ Yes ☒ No		
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geol Society; Topographic map	ogy & Mineral Resources; USGS; NM Geological	Yes 🗷 No		
Within a 100-year floodplain FEMA map		Yes X No		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of t by a check mark in the box, that the documents are attached.	he following items must be attached to the closure pla	un. Please indicate,		
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 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				

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate	te and complete to the best of my knowledge and belief.		
Name (Print): Doug Thomas	Title: Drilling Superintendent		
Signature: U OCO SUCTION	Date:03/02/10		
e-mail address: dthomas@energen.com	Telephone:505_324-4127		
OCD Approval: Permit Application (including closure plan) Clo	osure Plan (only) OCD Conditions (see attachment)		
OCD Representative Signature:	Approval Date: 6-2-10		
Title: Enviro/spec 0	CD 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:			
22			
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.			
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.  Disposal Facility Name: Disposal Facility Permit Number:			
Disposal Facility Name: Dis	posal Facility Permit 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)			
Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique			
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 Longitude NAD: 1927 1983			
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:		
e-mail address:	Telephone:		

# ENERGEN RESOURCES CORP.

## SAN JUAN BASIN, NEW MEXICO

# Drilling/Completion and Workover

# Type of action & rational

<b>4</b>	Transfer	Drilling	Pit to	Compl	etion/	/Work	cover
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- Energen proposes to utilize the same pit built to drill the well for the subsequent workover/completion activities noted in the well APD and necessary to bring the subject well into optimum production. Utilization of the same pit will minimize environmental impacts and waste of resources (i.e. waste of fuel and associated greenhouse emissions, surface disturbance...).
- Workover rig to be mobilized within six months of Drilling rig demobilized

0	Transfer Drilling Pit from		
		(well name)	(well name)

- As required by the Surface Owner and/or Surface Managing agency (e.g. BLM, USFS, Tribal). Energen is being required to utilize the same well pad for multiple new wells. In these cases, Energen proposed to utilize the same pit for all the new wells to be drilled. Utilization of the same pit will minimize environmental impacts and waste of resources (i.e. waste of fuel and associated greenhouse emissions, surface disturbance...). Energen has permitted the common pit for each well and request permission to transfer the pit since the first well has been drilled and completed.
- o Pit to be considered for first well named.
- Drill rig to be rigged up within six months of former rig demobilization.

Extension for three months to meet closure/cover requirements in Rule 19.15.17.13.A(6)

- As required by the Surface owner and/or Surface Managing Agency (e.g. BLM, USFS, Tribal), Energen cannot conduct construction or similar activities during Seasonal Closures and therefore cannot meet the closure requirements specified in the referenced rule. Closure will be scheduled and initiated as soon as the Seasonal Closure is lifted.
- o <u>O7-28-10</u> needed due to Surface Owner restriction and limitation. (revised closure date)

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 an Energen Resources Corp. location in the san Juan Basin of New Mexico.

This M/1 plan will be followed in that case:

# D&C Plan

 No proposed changes. Energen 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:

- o 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-rig down and workover/completion-rig up will be weekly.
- o The fluid will be removed within 30 days after the completion of each process.
- Energen will conduct an inspection and take photo documentation no more than seven days prior to the pit being placed back into use.
- Energen will notify NMOCD district office 7-14 days prior to start of each process.
- o If any mud and solids require removal to ensure that 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 an approved land farm.
- Energen 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).

# Closure Plan:

- Due to the use of the pit for multiple processes the confirmation sampling will occur before and after the contents have been stabilized to ensure a representative sample (only required for a pit used for multiple wells).
- o Energen will submit the photo documentation and testing stated above with the C-144 closure.
- o 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. Energen will comply with the rest of the original Closure Plan.

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