Pat Sanchez

From: Pat Sanchez

Sent: Friday, December 19, 2008 10:22 AM

To: 'charlie.perrin@state.nm.us'; 'brandon.powell@state.nm.us'

Cc: Vicki Donaghey; Kirt Snyder; Martin Cabrera; Charlie Donahue; Ed Hasely

Subject: Pit closures for Closed Loop flow Back tanks - remedial/work over type

Mr. Powell and Mr. Perrin;

We will be submitting several work over - flow back tank type closed loop permits for closure. The permits were approved by NMOCD from Mid summer until late fall of 2008. A miscommunication in our internal processing occurred and we did not submit closure reports.

The fluids are typically produced water with spent treatment fluid that have been pumped into the reservoir during operations and were disposed of in our own SWD's typically.

I will be out of the office from December 20th and back in on Monday January 5, 2009 - if you need to follow-up by phone please call my Supervisor Mr. Charlie Donahue at 505.324.4140.

They will be submitted as soon as possible.

Thanks

Patricio W. Sanchez Energen Resources District Engineer- San Juan 2010 Afton Place Farmington, NM 87401 Telephone 505.324.4141 Cell 505.793.7605 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 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 Fc Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

9	01	$ \Delta $	Λ
\bigcirc	O	0	IJ

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

Please be advised that approval of this request does not relieve the operator of lia							
Operator:Energen Resources	ply with any other applicable governmental authority's rules, regulations or ordinances. OGRID #: 16298						
Address:2010 Afton Place, Farmington, New Mexico 87401							
Facility or well name:Carracas Unit FR 102	noun 111 1/100						
API Number:30-039-24349OCD Permit							
1	NICT O						
O'L O' Qu' Qu' Section11 Townsinp3214 Range3W County Rio Arriva							
Center of Proposed Design: Latitude36.98942 N Longitude107.3263W NAD: ☐1927 🗵 1983							
Surface Owner: Federal State Private Tribal Trust or Indian							
Pit: Subsection F or G of 19.15.17.11 NMAC	☐ Closed-loop System: Subsection H of 19.15.17.11 NMAC						
Temporary: Drilling Workover	☐ Drying Pad ☐ Tanks ☐ Haul-off Bins ☐ Other						
☐ Permanent ☐ Emergency ☐ Cavitation ☐ Steel Pit	Lined Unlined						
Lined Unlined	Liner type: Thicknessmil						
Liner type: Thicknessmil	Other						
Other String-Reinforced	Seams: Welded Factory Other						
Seams: Welded Factory Other	Volume:bblyd ³						
Volume: bbl Dimensions: L x W x D	Dimensions: Length_20 ft x Width12 ft						
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC						
Volume:bbl	Chain link, six feet in height, two strands of barbed wire at top						
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and						
Tank Construction material:	four feet						
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC						
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other						
☐ Visible sidewalls and liner	☐ Monthly inspections						
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC						
Other	☐ 12'x24', 2' lettering, providing Operator's name, site location, and						
Liner type: Thicknessmil HDPE PVC	emergency telephone numbers						
☐ Other	⊠ Signed in compliance with 19.15.3.103 NMAC						
Alternative Method:	Administrative Approvals and Exceptions:						
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.						
of approval.	Please check a box if one or more of the following is requested, if not leave						
10 10 10 10 10 20 21 22 25 1	blank:						
(45°) 20 'P2	Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for						
S -CENED BY	consideration of approval.						
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. RECEIVED RECE	Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
- ISI 3 0	Christianichan Durous office for consideration of approvai.						

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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or 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						
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	☐ 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) - 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						
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 	☐ 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 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC						
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 intached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (required 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 - 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:						

Rermanent 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 do	cuments 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 the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan 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 H ₂ S, 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						
Type: Drilling Workover Emergency Cavitation 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 Bureau for co	nsideration)					
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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.						
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 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; Data obtained from nearby wells						
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						
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. - 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 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; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No					
Within 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 	☐ Ycs ☐ No					
Within a 100-year floodplain.	☐ Yes ☐ No					

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 ☑ Still Perhaps the 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
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility
or facilities for the disposal of liquids, drilling fluids and drill cuttings.
Disposal Facility Name: _Envirotech,; Carracas SWD #1 Disposal Facility Permit Number: _NM-01-0011; API 30-039-24278
On-Site 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.
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 and Design of Burial Trench (if applicable) 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 and complete to the best of my knowledge and belief.
Name (Print):Pat Sanchez Title:District Engineer
Signature: Date:
e-mail address:psanchez@energen.com Telephone:505,324.4141
OCD Approval: Permit Application (including closure plan) Closure Plan (only)
3/22/4
OCD Representative Signature: Brandon Pamell). NJL Approval Date: 7/14/08
OCD Representative Signature: Brandon Vamell). NJL Approval Date: 7/14/08 Title: En Jiro (spec OCD Permit Number:
Title: En Jiro (spec OCD Permit Number:
Title: En Jiro (spec OCD Permit Number:
Title:
Title:
Title: ENJIN (SPEC OCD Permit Number: Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain.
Title: ENJIO (SPEC OCD Permit Number: Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: 8/20/2-88 Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check
Title: ENJIO (SPEC OCD Permit Number: Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: 8/20/2088 Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. DA Proof of Closure Notice
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 NA Proof of Deed Notice (if applicable)
Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. NA Proof of Closure Notice NA Proof of Deed Notice (if applicable)
Title:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. DA Proof of Closure Notice NA Proof of Deed Notice (if applicable) NA Confirmation Sampling Analytical Results NA Waste Material Sampling Analytical Results NA Disposal Facility Name and Permit Number
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 NA Proof of Deed Notice (if applicable) NA Oconfirmation Sampling Analytical Results NA Waste Material Sampling Analytical Results NA Disposal Facility Name and Permit Number NA Soil Backfilling and Cover Installation
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. DA Proof of Closure Notice NA Proof of Deed Notice (if applicable) NA Onfirmation Sampling Analytical Results NA Waste Material Sampling Analytical Results NA Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation NA Re-vegetation Application Rates and Seeding Technique
Title:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. DA Proof of Closure Notice NA Proof of Deed Notice (if applicable) NA Onfirmation Sampling Analytical Results NA Waste Material Sampling Analytical Results NA Disposal Facility Name and Permit Number NA Soil Backfilling and Cover Installation NA Re-vegetation Application Rates and Seeding Technique
Title:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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. DA Proof of Closure Notice Proof of Deed Notice (if applicable) Proof of Deed Notice (if applicable) Plot Plan Ma Confirmation Sampling Analytical Results Male Waste Material Sampling A
Title:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Closure Method: Closure Keport 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. 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. 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. 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. 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. 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 and pricate least indicate, by a check mark in the box, that the documents and pricate least indicate, by a check mark in the box, that the documents are attached. DA Proof of Closure Notice (if applicable) NAD Proof of Closure Centification Rates and Seeding Technique 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 completes with all applicable closure requirements and conditions specified in the approved closure plan.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Closure Method: Closure Keport 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. 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. 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. 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. 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. 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 and pricate least indicate, by a check mark in the box, that the documents and pricate least indicate, by a check mark in the box, that the documents are attached. DA Proof of Closure Notice (if applicable) NAD Proof of Closure Centification Rates and Seeding Technique 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 completes with all applicable closure requirements and conditions specified in the approved closure plan.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Closure Method: Closure Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 Plot Plan Confirmation Sampling Analytical Results Disposal Facility Name and Permit Number Al Soil Backfilling and Cover Installation No Soil Backfilling and Cover Installation No On-site Closure Location: Latitude Longitude 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.

Closed-loop Design Plan:

Our closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will entail an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be of sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1) Fencing is not required for an above ground closed-loop system.
- 2) It will be signed in compliance with 19.15.3.103 NMAC.
- 3) A frac tank will be on location to store fresh water.

Closed-loop Operating and Maintenance Plan:

The closed-loop tank will be operated and maintained; to contain liquids and solids, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment. To attain this goal the following steps will be followed:

- 1) The liquids will be vaccumed out and disposed of at the Carracas SWD#1 facility (Disposal API Number 30-039-30168). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit Number NM-01-0011) on a periodic basis to prevent over topping.
- 2) No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cuttings used or generated by rig operations will be placed or stored in the tank.
- 3) The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately.
- 4) All of the above operations will be inspected and a log will be signed and dated. During rig operations the inspection will be daily.

Closed-loop Closure Plan:

The closed loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit Number NM-01-0011) following rig operations. All remaining liquids will be transported and disposed of in the Carracas SWD#1 facility (Disposal API number 30-039-30168). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised October 12, 2005

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

District III 1000 Rio Brazos Rd., Aztec, NM 87410				1220 South St. Francis Dr. Santa Fe, NM 87505					State Lease - 4 Copies Fee Lease - 3 Copies			
District IV 1220 S. St. Franc	is Dr. Santa	Fe. NM 8750	5		Sama Pe,	INIVI	0/303		П	AM	ENDED REPO	ORT
				ATION	AND A	CREA	GE DEDICA	ATION PLA	T			
API Number				² Pool Code				³ Pool Name				
30 - 039 - 24349 4 Property Code				71629 B451N			FRUITI	FRUITLAND COAL				
Property Code				S Property Name					6 Well Number FR 102			
7OGRID No.				R Operator Name						<u> </u>	⁹ Elevation	
162928				Energen Resources Corporation						ר	506' GL	. i
¹⁰ Surface Location								J				
UL or lot no.	Section	Township	Range	Lot. I		rom the	North/South line	Feet from the	East/Wes	st line	Co	ounty
ァ	11	32N			1,67		South	1,190'	EAS-	,	Riu Arrib)(a
		3-4.		tom Hok			Ferent From Su		<u>~~3</u>	L1.	ICIU MITTO	
UL or lot no.	Section	Township		Lot. I					Fact (V/a)	et line		auatu
OLOHOU.	Section	rownsnip	Range	1.00.1	uii reet	from the	North/South line	Feet from the	East/We	st iine	C	ounty
12 Dedicated Acr	cs 13 Join	nt or Infill	1 ⁴ Consolidatio	n Code 15	Order No.							
			· P								•	_
NO ALLOW	ABLE WI						TIL ALL INTE			ONSC	OLIDATED O	R A
r		NO.	DN-STAND	OARD UN	IT HAS BE	EN A	PPROVED BY					
16						- 1		11			FICATION ntained herein is tru	- 11
						- 1		- 11	-		niainea nerein is iru ind belief, and that i	- II
								11 '	• •	•	erest or unleased mi	- 11
								11 "		_	sed bottom hole loca	- 11
								or has a right to d	rill this well	at this le	ocation pursuant to a	a
								H	•		al or working intere	II.
					. — —			heretofore chereto			co m pulsory pooling	order
						1		nereinjoreenjered				
	:			:				On	4 B J	3	7-11-2018	8
ļ						-		Signature		,	Date	_
								Patri	cio W	<u>/. S</u>	unchez	
						l		Printed Name			7-11-2018 Date unche Z	
						MA	D 83	18SURVE	YOR C	ERT	TIFICATIO	N
						- 1	7 36.98942	I hereby certify th	at the well lo	cation s	hown on this plat	·
							107.3263	was plotted from j	-			
							_	me or under my s	•		the same is true	l
		•					— 1,1 qy! —	and correct to the		uicj.		
				ı		11		5-14	- 88			
						4'		Date of Survey Signature and Scal o	(Professoral C	ingupasse.		
	i							Signature and Scal o	i ittoiessional S	urveyer:		
						11	າຣ' ຊຸ່ງ ^ຄ	N.				ţ
						17	- <i>G</i>	Ca 1	الما	ا نظ	Risenhou	w.
						$ \cdot $		U-15	·· 77		1	.
						11		Ea76	a		Risenbou	

Certificate Number