State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 CLEZ July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

10945

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off hins and propose to implement waste removal for closure)

Permit

Closure

Type of action:

API Number: 30-039-26887 OCD Permit Number: U/L or Qtr/Qtr	
Operator: Energen Resources Corporation OGRID Address: 2010 Afton Place, Farmington, NM 87401 Facility or well name: Jicarilla 94 #48 API Number: 30 · 039 · 26887 OCD Permit Number: U/L or Qtr/Qtr J Section 23 Township 27N Range 03k Center of Proposed Design: Latitude 36 · 55698 Longitude 107 · 11 Surface Owner: Federal State Private Tribal Trust or Indian Allotment 2.	
Address:	County:Rio Arriba
Facility or well name: Jicarilla 94 #4B API Number: 30.039-26887 OCD Permit Number: U/L or Qtr/Qtr J Section 23 Township 27N Range 03W Center of Proposed Design: Latitude 36.55698 Longitude 107.11 Surface Owner: Federal State Private Trust or Indian Allotment Classed-loop System: Subsection H of 19.15.17.11 NMAC Operation: Drilling a new well W Workover or Drilling (Applies to activities which require prior W Above Ground Steel Tanks or Haul-off Bins Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers W Signed in compliance with 19.15.3.103 NMAC Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NM/Instructions: Each of the following items must be attached to the application. Please indicate, by a attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Deprating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan (Please complete Box 5) - based upon the appropriate requirements of 19.15.17.12 NMAC Deprating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number:	County:Rio Arriba
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	Laff Bins Only: (19.15.17.13.D NMAC) cuttings. Use attachment if more than two Number: NM-1-0011
197911	Number: <u>WM-1-008</u>
Will any of the proposed closed-loop system operations and associated activities occur on or in areas the Yes (If yes, please provide the information below)	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of S Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 N Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.1	at will not be used for future service and operations?
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the	bsection H of 19.15.17.13 NMAC
Name (Print): Adam Klem Title: Dist	bsection H of 19.15.17.13 NMAC MAC 3 NMAC
Signature: Date:	bsection H of 19.15.17.13 NMAC MAC 3 NMAC
Yes (If yes, please provide the information below) Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of S Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 N Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.16 Operator Application Certification: Thereby certify that the information submitted with this application is true, accurate and complete to the state of the section of	at will not be used for future service and operations?

e-mail address:

aklem@energen.com

505.324.4163

Telephone:

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OCD Approval: Permit Application (including closure plan) Closure Plan (afty) Kelly 624/2013
OCD Representative Signature: Approval Date: 4/23/2013
Title: Compliance Office (OCD Permit Number:
8. 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: 4/26/2013
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:
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
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): Carson Johnston Title: Engager
Signature:
e-mail address: Carson, Johnston Penergen.com Telephone: 505-324-4139

Closed-Loop System Plan: Workover or P&A

In accordance with Rule 19.15.17 NMAC, the following plan describes the general Design, Operating & Maintenance, and Closure of the proposed Closed-Loop systems for this well.

Closed-Loop Design Plan:

The Closed-Loops System will consist of one or more temporary above-ground steel tank(s) or waste pit(s) suitable for holding all cuttings and fluids circulated from the well during the planned rig operations. The tank(s) will be of sufficient volume to maintain a safe free-board between disposal of the liquids and solids from rig operations. Additional design considerations include:

- 1. This Closed-Loop System will not use a drying pad, temporary pit, below-grade tank or sump.
- Fencing is not required for an above-ground closed-loop system.
- 3. It will be signed in compliance with 19.15.3.103 NMAC.
- 4. A frac tank will be on location to store fresh or KCI water.
- Tanks will be placed on the active and disturbed areas of the well location and within the existing ROW footprint.

Closed-Loop Operating Plan:

The Closed-Loops System 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. The following steps will be followed to attain this goal:

- 1. The liquids in the steel tank(s) will be vacuumed out and disposed of at one of the following facilities depending on the proximity of the well and the disposal volumes: Auga Moss Pretty Lady (Permit 30-045-30922); Basin Disposal (Permit: NM-01-0005); Sunco Disposal #1 (NM 01-009) or T-N-T Environmental (NM 01-008).
- 2. Solids in the Closed-Loop tank will be vacuumed out and disposed of at one of the following facilities depending on the proximity of the well and the disposal volumes: Envirotech (Permit Number NM-01-0011); Industrial Ecosystems Inc (Permit NM 1-10-B) or T-N-T Environmental (NM 01-008) on a periodic basis as necessary to prevent over topping.
- 3. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank(s). Only fluids or cutting intrinsic to, used or generated by rig operations will be placed or stored in the tank(s).
- 4. The Division District office will be notified within 48 hours of the discovery of compromised integrity of the Closed-Loop System. Upon discovery of the compromised tank, repairs will be enacted immediately.
- All of the above operations will be inspected each day, signed and dated and any irregularities will be recorded. During rig operations the inspection will be daily.

Closed-Loop Closure Plan:

The Closed-Loops System will be closed in accordance with 19.15.17.13. This will be done by:

- Transport for disposal all remaining liquids to one of the following facilities depending on the proximity of the disposal well and disposal volumes: Auga Moss - Pretty Lady (Permit 30-045-30922); Basin Disposal (Permit: NM-01-0005); Sunco Disposal #1 (NM 01-009) or T-N-T Environmental (NM 01-008).
- 2. Transporting cuttings and all remaining sludge to an approved facility: Envirotech (Permit Number NM-01-0011); Industrial Ecosystems Inc (Permit NM 1-10-B) or T-N-T Environmental (NM 01-008) as reasonable as possible after the rig activities.
- Removal of the tank(s) from the well location after the rig activities has been completed.
- 4. At the time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible, or as stipulated by the landowner in a surface use agreement. Timing of reseeding, seed mix, and assessment of successful reclamation will be in compliance with conditions in APD.