**Energy Minerals and Natural Resources** 

HOBBS OCD State of New Mexico

Form C-144 CLEZ July 21, 2008

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

SEP 2 5 2012 Department Oil Conservation Division 1220 South St. Francis Dr.

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.

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED Santa Fe, NM 87505

Closed-Loop System Permit or Closure Plan Application

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

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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: Quantum Resources Management, LLC OGRID #: 243874		
Address: 1401 McKinney St. Ste 2400, Houston, TX 77010		
Facility or well name: Northeast Pearl Queen Unit. Well #1008		
API Number: 30-025-03197 - OCD Permit Number: P1 - 05236		
U/L or Qtr/Qtr B Section 23 Township 19S Range 35E County: Lea		
Center of Proposed Design: Latitude NAD:1927 1983		
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment		
2.		
☐ Closed-loop System: Subsection H of 19.15.17.11 NMAC  Operation: ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A  ☐ 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  ☐ Signed in compliance with 19.15.3.103 NMAC		
4. 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.  □ 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 Box 5) - 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: 30-025-39751 □ Previously Approved Operating and Maintenance Plan API Number: 30-025-39751		
S.  Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or 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. Use attachment if more than two facilities are required.		
Disposal Facility Name: Controlled Recovery, Inc.  Disposal Facility Permit Number: NM-01-0006		
Disposal Facility Name: Disposal Facility Permit Number:		
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) 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 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		
6. 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): Celeste G. Dale Title: Sr. Regulatory Analyst		
Signature. Culista A. Male. Date: 09/18/12		
e-mail address: <u>cdale@gracq.com</u> Telephone: <u>(432) 683-1500</u>		

OCD Approval: Permit Application (including closure plan), Closure Plan (only)		
OCD Representative Signature: Wash Whiteham Approval Date: 09-25-2012		
Title: <u>Compliance Officer</u>	OCD Permit Number: 09-25-2012	
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:		
9. 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		
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 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):	Title:	
Signature:		
e-mail address:	Telephone:	

Quantum Resources Management, LLC Closed-Loop System

## Design Plan

## **Equipment List**

- 2 414 MI Swaco Centrifuges
- 2 MI Swaco 4 screen Mongoose Shale Shakers
- 2 double screen Shakers with rig inventory
- 2 CRI Haul-off bins with track system
- 2 additional 500 bbl Frac tanks for fresh and brine water
- 2 500 bbl water tanks with rig inventory
- \* Equipment manufacturers may vary due to availability but components will not

## Operation and Maintenance

The system along with equipment will be inspected numerous times a day by each tour to make sure all equipment is operating correctly. Routine maintenance will be done to keep system running properly. Any leak in the system will be repaired and/or contained immediately and the OCD notified within 48 hours of the start of the remediation process.

## Closure Plan

While drilling all cuttings and fluids associated with drilling will be hauled off and disposed of via Controlled Recovery, Inc. facilities. Permit NM-01-0006.

