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 closed-loop systems that only use above

Form C-144 CLEZ

July 21. 2008

ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit - to the appropriate NMOCD District Office.

# 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 \( \subseteq \text{Closure} \)

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. OGRID #: <u>243874</u> Operator: Quantum Resources Management, LLC Address: 1401 McKinney St. Ste 2400, Houston, TX 77010 Facility or well name: Jalmat Field Yates Sand Unit Well #110 ✓ OCD Permit Number: P1 - 05078 API Number: 30-025-08593 U/L or Qtr/Qtr F Section 11 Township 22S Range 35E County: Lea Center of Proposed Design: Latitude \_\_\_\_\_ Longitude NAD: 1927 1983 Surface Owner ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment ☐ 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 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 API Number: 30-025-39751 Previously Approved Operating and Maintenance Plan 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. R3bD Disposal Facility Permit Number: NM-01-0006 Disposal Facility Name: Controlled Recovery, Inc. 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 1 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): Celeste G. Dale Title: Sr. Regulatory Analyst Signature: Date: 08/14/12

e-mail address: edule a gracq.com

Telephone: 432-683-1500

OCD Approval: Permit Application (including closure plant) Closure P	
OCD Representative Signature	Approval Date: 6-15-2012
Title: Dest. Many	OCD Permit Number: P1-05078
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:	
Schools 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:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	r in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operated Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	ions:
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:

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.

