

HOBBS OCD

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

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.

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.

<p>1. Operator: <u>Quantum Resources Management, LLC</u> OGRID #: <u>243874</u></p> <p>Address: <u>1401 McKinney St. Ste 2400, Houston, TX 77010</u></p> <p>Facility or well name: <u>Encore M State #009</u></p> <p>API Number: <u>30-025-40749</u> OCD Permit Number: <u>PI-05162</u></p> <p>U/L or Qtr/Qtr <u>D</u> Section <u>20</u> Township <u>22S</u> Range <u>37E</u> County: <u>Lea</u></p> <p>Center of Proposed Design: Latitude <u>32.383297</u> Longitude <u>103.19265</u> NAD: <input type="checkbox"/> 1927 <input checked="" type="checkbox"/> 1983</p> <p>Surface Owner: <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment</p>	
<p>2. <input checked="" type="checkbox"/> Closed-loop System: Subsection H of 19.15.17.11 NMAC</p> <p>Operation: <input checked="" type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) <input type="checkbox"/> P&A</p> <p><input type="checkbox"/> Above Ground Steel Tanks or <input checked="" type="checkbox"/> Haul-off Bins</p>	
<p>3. Signs: Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>	
<p>4. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC</p> <p>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.</p> <p><input checked="" type="checkbox"/> Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</p> <p><input checked="" type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</p> <p><input checked="" type="checkbox"/> 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</p> <p><input checked="" type="checkbox"/> Previously Approved Design (attach copy of design) API Number: <u>30-025-40299</u></p> <p><input checked="" type="checkbox"/> Previously Approved Operating and Maintenance Plan API Number: <u>30-025-40299</u></p>	
<p>5. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)</p> <p>Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.</p> <p>Disposal Facility Name: <u>Controlled Recovery, Inc.</u> Disposal Facility Permit Number: <u>NM-01-0006</u></p> <p>Disposal Facility Name: _____ Disposal Facility Permit Number: _____</p> <p>Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations?</p> <p><input type="checkbox"/> Yes (If yes, please provide the information below) <input checked="" type="checkbox"/> No</p> <p>Required for impacted areas which will not be used for future service and operations:</p> <p><input type="checkbox"/> Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</p> <p><input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC</p> <p><input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</p>	
<p>6. Operator Application Certification:</p> <p>I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.</p> <p>Name (Print): <u>Yolanda Perez</u> Title: <u>Regulatory Supervisor</u></p> <p>Signature: <u>Yolanda Perez</u> Date: <u>08/29/12</u></p> <p>e-mail address: <u>yperez@qracq.com</u> Telephone: <u>(713) 634-4696</u></p>	

7. **OCD Approval:** ☐ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: _____

Approval Date: _____

Title: Petroleum Engineer

OCD Permit Number: PI-05162

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: _____

Disposal 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) ☐ 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

10. **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

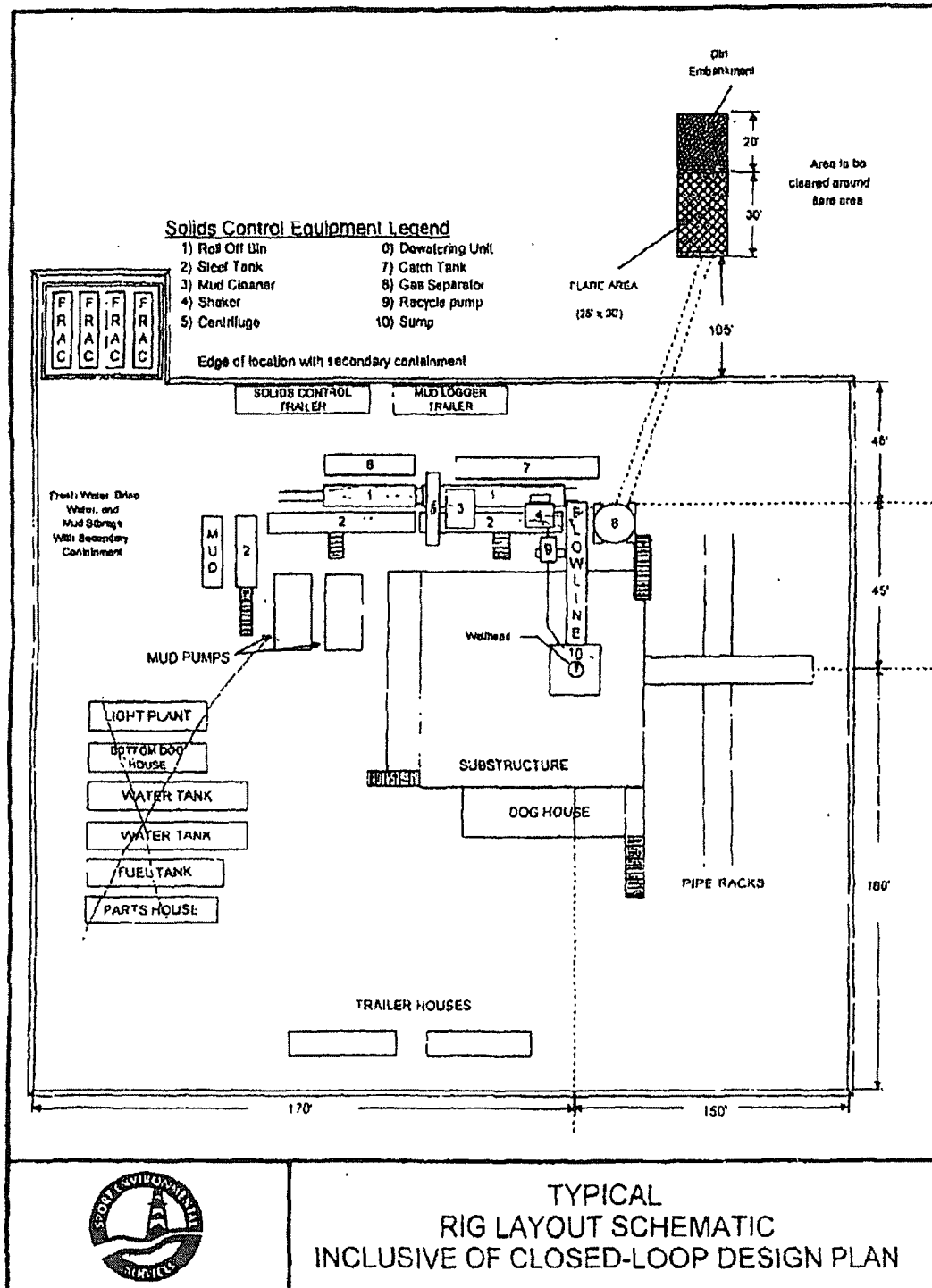
* Equipment manufacturers may vary due to availability but components will not

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.



TYPICAL
RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN