HOBBS	0CD
-------	-----

JUN 1 2 2013

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
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

REGENCE op systems that only use above ground steel tanks or haut-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: \square Permit \square 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

convironment. Nor does approval relieve the operator of its responsibility to comply with a	iny other applicable governmental authority's filles, regulations of ordinances.
0. Operator: <u>Cimarex Energy Co.</u>	_OGRID #:
Address:600 N. Marienfeld Street, Suite 600: Midland, TX 79701	
Facility or well name: Quail 11 State 4H	
API Number: <u>30-025- 41210</u> OCD Peri	nit Number: P1 - 0103 46
U/L or Qtr/Qtr <u>N</u> Section <u>11</u> Township <u>19S</u> Range <u>34E</u>	County: Lea
Center of Proposed Design: Latitude 32° 40' 06.55" Longitude 103° 31' 5	
Surface Owner: 🗋 Federal 🔀 State 🗋 Private 🗌 Tribal Trust or Indian Allotmen	t
 2. Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: Drilling a new well U Workover or Drilling (Applies to activities v Above Ground Steel Tanks or Haul-off Bins 	which require prior approval of a permit or notice of intent)
3. Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency	telenhone numbers
Signed in compliance with 19.15.3.103 NMAC	
 4. <u>Closed-loop Systems Permit Application Attachment Checklist</u>: Subsection B Instructions: Each of the following items must be attached to the application. Pa attached. M Design Plan - based upon the appropriate requirements of 19.15.17.11 NMA M Operating and Maintenance Plan - based upon the appropriate requirements of Closure Plan (Please complete Box 5) - based upon the appropriate requirement 	ease indicate, by a check mark in the box, that the documents are C of 19.15.17.12 NMAC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	
5. <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground</u> Instructions: Please indentify the facility or facilities for the disposal of liquids, a facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Irilling fluids and dritt cuttings. Use attachment if more than two
Disposal Facility Name: <u>R360</u>	Disposal Facility Permit Number: <u>NM-01-0006</u>
Disposal Facility Name:	Disposal Facility Permit Number:
Will any of the proposed closed-loop system operations and associated activities oc ☐ Yes (If yes, please provide the information below) ☑ No	cur on or 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 operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC
6. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurat	e and complete to the best of my knowledge and belief.
Name (Print):Michelle Chappell	Title: Regulatory Technician
Signature: Markette Cherppel C	Date:6.11.2013
e-mail address:mchappell@cimarex.com	Telephone:432-620-1959
Form C-144 CLEZ Oil Conservation 1	
Ch	JUN 1 3 2013

7	
OCD Approval: Permit Application (including closure	
OCD Representative Signature: Petroleum Engineer	Approval Date: 06/12/13
Title:	OCD Permit Number: <u>P1-06346</u>
	d closure plan prior to implementing any closure activities and submitting the closure repo on within 60 days of the completion of the closure activities. Please do not complete this
	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:
	where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more the
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activ Yes (If yes, please demonstrate compliance to the item	vities performed on or in areas that <i>will not</i> be used for future service and operations? ns below) 🔲 No
Required for impacted areas which will not be used for futur Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	re service and operations:
Re-vegetation Application Rates and Seeding Technic	que
Re-vegetation Application Rates and Seeding Technic	que
Re-vegetation Application Rates and Seeding Technic <u>Operator Closure Certification</u> : I hereby certify that the information and attachments submitt	que ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Re-vegetation Application Rates and Seeding Technic <u>Operator Closure Certification</u> : I hereby certify that the information and attachments submitt belief. I also certify that the closure complies with all applic	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Re-vegetation Application Rates and Seeding Technic <u>Operator Closure Certification</u> : I hereby certify that the information and attachments submitt belief. I also certify that the closure complies with all applic	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.

Equipment List

- Primary Shakers
- Mud Cleaner hydro-cyclones
- 1 or 2 Centrifuges (depending on well depth)
- De-watering system with pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing (may not be necessary for shallower wells)
- Drying Augur
- Sump Drying Augur
- Sump
- Cuttings Boxes
- Reserve Fluids Tank Farm
- Wire Mesh Trash Enclosure (spent motor oils kept in separate containers and later sent to approved landfill)

Operation and Maintenance

The Cimarex Zero Discharge system is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This ensures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

These closed loop operations can be monitored by our service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and tested for all regulated toxic materials. If found they are removed and disposed of per regulatory requirements.

<u>Closure Plan</u>

During drilling operations, all liquids, drilling fluids, and cuttings will be hauled off via CRI (Controlled Recovery Incorporated, Permit R-9166).

