1625 N. French Dr., Hobbs, NM 88240 District 1

1301 W. Grand Avenue, Artesia, NM 88210 **2 2 2011** District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

District IV 1220 S. St. Francis Dr., Santa Fc, 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: X 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 once approach go comments, and a second	
Operator: Cabal Energy Corporation	OGRID #: 194930	
Address 415 W. Wall Street, Suite 1700, Midl	land, TX 79701	
Facility or well name: Good Chief State #1		
API Number: 30-025-40170 OCD P	ermit Number: P D3399	
API Number: 30-025-40170 OCD P U/L or Qtr/Qtr A Section 28 Township 26S	Range 36E County: Lea	
Center of Proposed Design: Latitude 34.011426 Longitude 103.154538 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		
3. Signs: Subsection C of 19.15.17.11 NMAC		
12"x 24", 2" lettering, providing Operator's name, site location, and emergenc	y telephone numbers	
☒ Signed in compliance with 19.15.3.103 NMAC		
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: ☐ Previously Approved Operating and Maintenance Plan API Number:		
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7. OCD Approval: Permit Application (including closure plan) Closure Plan (only)		
OCD Representative Signature:	Approval Date: 86/27///	
Title: Geologist	OCD Permit Number: PI-D3399	
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. <u>Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, detwo facilities were utilized.</u>		
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 Yes (If yes, please demonstrate compliance to the items below) No	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 Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ations:	
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:	

Good Chief State #1 UNIT A SECTION 28, T26S – R36E LEA COUNTY, NEW MEXICO

Design

Drilling mud will circulate through a closed system consisting of steel pits on the surface, mud pumps, piping on the surface to the rotating head and return piping from the bell nipple back to the steel pits. Solids will be removed from the mud in the steel pits using the following equipment:

- 1. 2 shale shakers will be installed with 110-250 mesh screens. These shale shakers should remove solids down to 65 micron diameter. All return drilling mud will flow across the shale shakers.
- 2. A 6T4 mud cleaner will be installed to further remove solids to the 25 micron level. Drilling mud will be circulated through the mud cleaner using a 5x6x12 75 hp pump. This pump will generate the optimal pressure for the mud cleaner cones to process the solids.
- 3. A 518 centrifuge will pick up a portion of the effluent from the mud cleaner. The centrifuge will remove solids to the 10 micron level. The centrifuge will remove solids down to the 1 micron level after adding the dewatering unit, as discussed below.
- 4. A dewatering unit will add polymer to the flow stream entering the centrifuge to flocculate the solids. Flocculation increases the effective particle size of the solids, enhancing the performance of the centrifuge to remove solids down to the 1 micron level.
- 5. Roll-off bins (20 cubic yards per bin) and rails will be installed next to the steel pits so that the solids removed form the shale shakers, mud cleaner and centrifuge fall directly into a bin. Once a bin is full it is picked up by a truck and hauled to disposal. An empty bin is moved under the solids control equipment along the rail so that the solids control equipment can operate continuously.

Operation and Maintenance

Personnel dedicated exclusively to operating and maintaining the solids control equipment will be on site 24 hours per day while drilling. The solids control personnel will monitor the shale shakers, mud cleaner, centrifuge, dewatering unit and all associated pumps and piping to make sure the equipment is functioning correctly. If equipment problems are identified, the solids control personnel will coordinate repair or replacement of the equipment. The solids control personnel will also monitor the level of solids in the roll-off bins and arrange for trucks to pick up the bins when they are filled.

Closure Plan

Cuttings and other solid will be hauled off to a permitted landfill according to OCD guidelines. Liquids will be re-used to the extent possible, but if liquids need to be disposed they will also be hauled to a permitted disposal facility. Liquids to be temporarily stored on site will be placed in 500 bbl "frac" tanks.

For the Good Chief State #1 well, both solid waste and liquid waste will possibly be taken to the Controlled Recovery, Inc. (CRI) "Halfway Facility" between Carlsbad and Hobbs NM-01-0006.

