

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.

1. Operator: Chesapeake Operating, Inc. OGRID #: 147179  
Address: P.O. Box 18496 Oklahoma City, OK 73154  
Facility or well name: PLU Ross Ranch 20 Federal # 1H  
API Number: 30-015- 38357 OCD Permit Number: 211030  
U/L or Qtr/Qtr D Section 20 Township 25 South Range 30 East County: Eddy  
Center of Proposed Design: Latitude 32.122419 Longitude -103.91033 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 emergency telephone numbers  
☒ Signed in compliance with 19.15.3.103 NMAC

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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: \_\_\_\_\_  
☐ Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_

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)  
**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.  
Disposal Facility Name: Contollred Recovery, Inc. Disposal Facility Permit Number: NM-01-0006  
Disposal Facility Name: Sundance Disposal Disposal Facility Permit Number: NM-01-0003  
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): Bryan Arrant Title: Sr. Regulatory Compl. Sp.  
Signature: Bryan Arrant Date: 01/07/2011  
e-mail address: bryan.arrant@chk.com Telephone: (405)935-3782

7.

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

OCD Representative Signature: \_\_\_\_\_

Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

OCD Permit Number: \_\_\_\_\_

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): \_\_\_\_\_

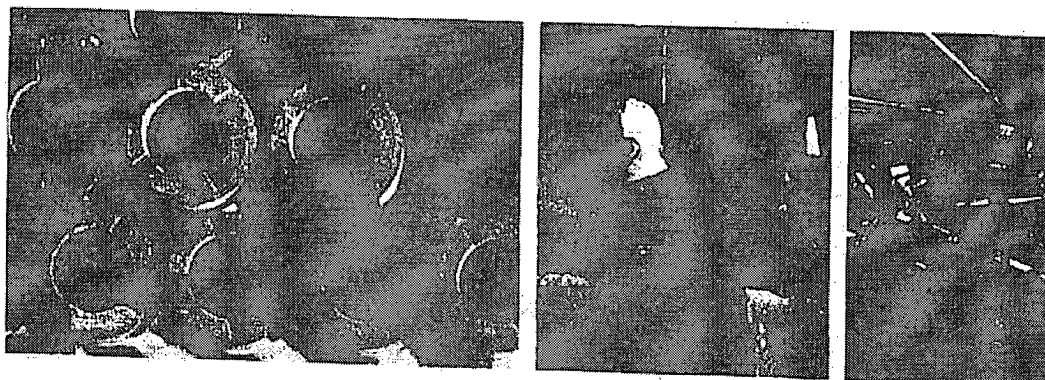
Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_

Telephone: \_\_\_\_\_



## RIG #62

### DRAWWORKS

Skytop Brewster N-75-M (1000HP)  
1 1/4" drill line, Parmac 342 auxiliary brake

### POWER

(2) Caterpillar 379 engines (550HP each)

### LIGHT PLANTS

(2) Caterpillar C-15 engines w/ 320 kW generators

### MAST

Ideal 137' w/ 622,000# capacity on 10 lines

### SUBSTRUCTURE

Ideal 15' box on box  
KB 17' Rotary beam clearance 12' 3"

### BLOCK HOOK

McKissick (300 Ton) combo

### PUMPS

(2) National 10-P-130 (1300HP each) triplex pumps  
Each independently powered by (1) Caterpillar 3512 engine

### MUD PITS

(2) tank system - 980 bbl capacity w/ 100 bbl slug pit

### SOLIDS EQUIPMENT

Derrick FLC-503 Dual Shaker  
Derrick 3-cone desander  
Derrick 20-cone desilter  
Atmospheric degasser  
(5) mud agitators

### BOP'S

13 5/8" X 5,000 psi Hydril annular  
13 5/8" X 5,000 psi Shaffer double

### ACCUMULATOR

Koomey 5-Station, 110 gallon accumulator

### CHOKE MANIFOLD

5,000 psi choke manifold

### SWIVEL

Continental Emsco (400 Ton)

### ROTARY TABLE

National (27 1/2")

### DRILL PIPE

4 1/2" drill pipe

### DRILL COLLARS

8" and 6 1/2" drill collars  
\*quantity subject to availability

### AUXILIARY EQUIPMENT

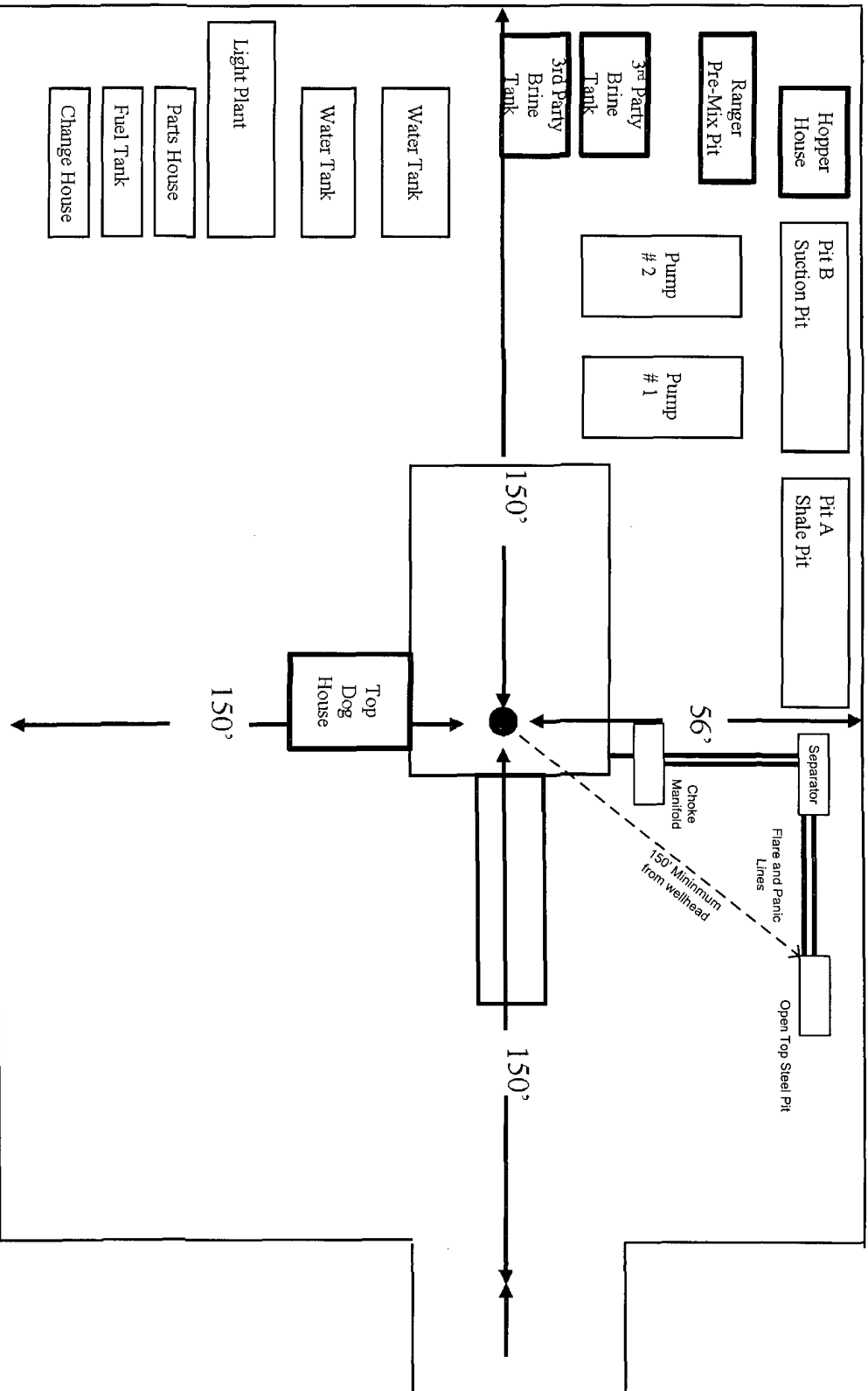
Pason EDR (base system)  
Fuel Tank - 10,000 gallon capacity  
Water Tank - (2) 500 barrel capacity each  
Rig Manager Quarters  
NOV ST-60 Iron Roughneck  
Satellite automatic driller  
Mathey survey unit

Revised 10.01.09



**PATTERSON-UTI  
DRILLING COMPANY**

# RIG 62



**Chesapeake Operating, Inc.'s Closed Loop System  
PLU Ross Ranch 20 Federal # 1H  
Unit D, Sec. 20, T-25-S R-30-E  
Eddy Co., NM**

**Equipment & Design:**

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits.

This rig has:

One Derrick FLC-503 Dual Shale Shaker

One Derrick 3-Cone Desander

One Atmospheric Degasser

One (1) 500 bbl frac tank for fresh water

One (1) 500 bbl frac tank brine water

**Operations & Maintenance:**

During each and every tour, the rig's drilling crew will inspect and monitor closely the drilling fluids contained within the steel pits and visually monitor any spill which may occur.

Within 48 hours should a spill, release or leak occur, the NMOCD District II office in Artesia (575-748-1283) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur.

**Closure:**

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed to the Controlled Recovery, Inc.'s location.

The permit number for Controlled Recovery, Inc. is: NM-01-0006

The alternative disposal facility will be Sundance Disposal.

Their permit # is: NM-01-0003.