District I 1625 N. French Dr., Hobbs, NM 88240 RECEIVED State of New Mexico Energy Minerals and Natural Resources

JUN 11 2010

Department

Form C-144 CLEZ July 21, 2008

District II 1301 W. Grand Avenue, Artesia, NM 8R210 District III

1000 Rio Brazos Road, Aztec, NM 874

Oil Conservation Division South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505

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 other applicable governmental authority's rules, regulations or ordinances. OGRID #: 147179 Operator: Chesapeake Operating, Inc.

Address: P.O. Box 18496 Oklahoma City, OK 73154	
Facility or well name: PLU Ross Ranch 20 Federal # 1	
API Number: 30-015- 38357	
J/L or Qtr/Qtr D Section 20 7	Cownship 25 South Range 30 East County: Eddy
Center of Proposed Design: Latitude 32.122419	Longitude <u>-103.91033</u> NAD: <u>■1927</u> 1983
Surface Owner: 🛛 Federal 🗌 State 🔲 Private 🔲 Tribal	Frust or Indian Allotment
. X <u>Closed-loop System:</u> Subsection H of 19.15.17.11 N Operation: X Drilling a new well Workover or Drillin Above Ground Steel Tanks or X Haul-off Bins	MAC g (Applies to activities which require prior approval of a permit or notice of intent) P&A
Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site ☐ Signed in compliance with 19.15.3.103 NMAC	location, and emergency telephone numbers
 Attached. Design Plan - based upon the appropriate requirement Operating and Maintenance Plan - based upon the appropriate requirement 	ed to the application. Please indicate, by a check mark in the box, that the documents are nts of 19.15.17.11 NMAC
Previously Approved Design (attach copy of design) Previously Approved Operating and Maintenance Plan	API Number:
Waste Removal Closure For Closed-loop Systems That	Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two
Disposal Facility Name: Controlled 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 an Yes (If yes, please provide the information below)	d associated activities occur on or in areas that <i>will not</i> be used for future service and operations X No
Re-vegetation Plan - based upon the appropriate req	sed upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
Operator Application Certification:	
	oplication is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Bryan Arrant	Title: Senior Regulatory Compl. Sp.
Signature: Buy Kun	Date: 06/01/2010
e-mail address: bryan <u>.arra</u> nt@chk.com	Telephone: (405)935-3782
Form C-144 CLEZ	Oil Conscription Division Page 1 of 2

7. OCD Approval: Permit Application (including cosure plan) Closure Plan OCD Representative Signature: Title: 7. Title: 7. Toponomic Application (including cosure plan) Closure Plan Clo	Approval Date: 12/30/2010 OCD Permit Number: 211030				
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 Instructions: Please indentify the facility or facilities for where the liquids, drilt two facilities were utilized.					
Disposal Facility Name:	Disposal Facility Permit Number:				
Disposal Facility Name:					
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \sum No					
Required for impacted areas which will not be used for future service and operati Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ons:				
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:				

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

API#			

Equipment & Design:

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

- (2) NOV DLMS-285P Linear Motion Shale Shakers
- (1) Sweco 2-cone/10" desander
- (1) Sweco 8-cone/5" desilter
- (1) 430 bbl "frac tank" for fresh water
- (1) 500 bbl "frac tank" brine water

For additional information, please see attached information.

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.



RIG 116 SPECIFICATIONS



HOISTING & ROTATING EQUIPMENT

Drawworks National 610-ME rated @ 750 hp driven by (1) GE 752 HT DC traction

motor rated @ 1130 hp

Auxiliary Brake Eaton 236WCBD friction brake cooled by NOV BCE-30403281S-19B

brake cooling package

Rotary Table National C-275 (27-1/2") chain-driven by drawworks

Traveling Block National 540-G-250 (250 ton)

Hook National G-250 (250 ton), unitized with traveling block

Swivel National P-300 (300 ton)

Pipe-Handling Varco ST-80 "Iron Roughneck" powered by Aberdeen Dynamics

18114-2 hydraulic power unit rated @ 60 hp

MAST & SUBSTRUCTURE

Mast Design Pyramid Cantilever

Height 146

Capacity 571k Static Hook Load (10 lines)
Substructure Design Veristic Technologies Box-on-Box

Floor Height 20' Clear Height 16'

Capacities 600k Casing / 400k Setback

TRANSPORT

Estimated Loads 32 (less tubulars)

POWER PACKAGE

Engines (3) Cat D398 rated @ 915 hp

Generators (3) Kato 6P6-2400 rated @ 902 kW / 1288 kVA / 0.7 pf

SCR System Ross Hill w/ (4) generator bays,

(4) SCR bays and (12) sections

GE MCC

BOP EQUIPMENT

Annular Control Flow 11" 5M GK

Single Ram None

Double Ram Control Flow 11" 5M Type DRH **Accumulator** Koomey 6-station / 160 gallon

Choke Manifold Cameron 4-1/16" 5M

STORAGE CAPACITIES

Drilling Water 430 bbl

Diesel 10,000 gallons

MUD SYSTEM

Trip Tank

Mud Pumps (2) National 10-P-130 triplex

rated @ 1300 hp, each driven by (1) GE 752 HT DC traction

motor rated @ 1130 hp **Charging Pumps** (2) 6x5x14 @ 60 hp / 1200 rpm

Process Pit (456 bbl) four-compartment

w/ (3) 10 hp mud agitators

Suction Pit (338 bbl) two-compartment

w/ (3) 10 hp mud agitators (108 bbl) one-compartment

W/(1) 10 hp mud agitator

 Trip Tank Pump
 4x3x13 @ 30 hp / 1200 rpm

 Shale Shakers
 (2) NOV DLMS-285P

linear-motion

Degasser Double Life DAD-DP atmospheric

Desander Sweco 2-cone / 10"

Desander Pump 6x5x14 @ 75 hp / 1200 rpm

 Desilter
 Sweco 8-cone / 5"

 Desilter Pump
 6x5x14 @ 75 hp / 1200 rpm

Mud Mixing Pumps (2) 6x5x14 @ 75 hp / 1200 rpm

TUBULARS

Drill Pipe 4-1/2" 16.60# G-105

4-1/2" 16.60# S-135

Drill Collars As needed for normal

drilling operations

