# 1625 N Trench Dr., Hobbs, NM 88240 District II

District III

1301 W Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410

# State of New Mexico RECEIVIED Minerals and Natural Resources

Department

APR 22 2010 Oil Conservation Division 1220 S. St. Francis Dr., Santa Fe, NM 8750 HOBBSOCD 220 South St. Francis Dr.

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 other applicable governmental authority's rules, regulations or ordinances.	
operator: Chesapeake Operating, Inc.	OGRID #: 147179	
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496		
Facility or well name: Nereid 1 Federal # 1H		
API Number: 30-005-29145 OCD P	ermit Number: PI- D2314	
U/L or Qtr/Qtr P Section 1 Township 15S	Range 31E County: Chaves	
Center of Proposed Design: Latitude 33.03948 Longi	tude <u>-103.76658</u> NAD: ဩ1927 ☐ 1983	
Surface Owner: 🛛 Federal 🗌 State 🗎 Private 🗀 Tribal Trust or Indian Allotme	nt	
2.		
X Closed-loop System: Subsection II of 19.15.17.11 NMAC		
Operation: \( \sum \) Drilling a new well \( \sum \) Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) \( \sum \) P&A		
☐ Above Ground Steel Tanks or ☒ Haul-off Bins		
Signs: Subsection C of 19.15.17.11 NMAC		
12"x 24", 2" lettering, providing Operator's name, site location, and emergence	y telephone numbers	
☑ Signed in compliance with 19.15.3.103 NMAC		
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.  \[ \textstyle \text{Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC} \] Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC \[ \textstyle 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		
<ul> <li>□ Previously Approved Design (attach copy of design)</li> <li>□ Previously Approved Operating and Maintenance Plan</li> <li>□ API Number:</li> </ul>		
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 indentify 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: 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 and associated activities of Yes (If yes, please provide the information below) ☒ No	occur 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 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 G 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: _Senior Regulatory Compl. Sp.	
Signature: Sun Show	Date: 04/20/2010	
e-mail address. bryan.arrant@chk.com	Telephone: _(405)935-3782	

OCD Approval: Permit Application (including closu	ire plan)  Closure Plan (only)
OCD Representative Signature:	Approval Date: 08/12/10
Title: Geologist	OCD Permit Number: Pt-023[9
The closure report is required to be submitted to the divis	mpletion): Subsection K of 19.15.17.13 NMAC  ved closure plan prior to implementing any closure activities and submitting the closure report.  sion within 60 days of the completion of the closure activities. Please do not complete this een obtained and the closure activities have been completed.  Closure Completion Date:
	r Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: r where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	
Were the closed-loop system operations and associated ac  Yes (If yes, please demonstrate compliance to the it	tivities performed on or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for fue  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technology	
belief. I also certify that the closure complies with all app	nitted with this closure report is true, accurate and complete to the best of my knowledge and colorable closure requirements and conditions specified in the approved closure plan.
Name (Print).	Title:
Signature:	Date:
e-mail address:	Telephone:







## HOISTING & ROTATING EQUIPMENT

Drawworks Oilwell 760 rated @ 1000 hp driven by (2) Caterpillar D379 rated @

@ 550 hp / 1200 rpm

Auxiliary Brake Parmac 342 hydromatic

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

Traveling Block Continental Emsco RA-44 (350 ton)

**Hook** Web Wilson Hydra Hook (350 ton), unitized with traveling block

Swivel Oilwell PC-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 Veristic Technologies Cantilever

Height 14

Capacity 573k Static Hook Load (10 lines)

Substructure Design Veristic Technologies Box-on-Box

Floor Height 23' Clear Height 19'

Capacities 573k Casing / 370k Setback

TRANSPORT

Estimated Loads 30 (less tubulars)

POWER PACKAGE

Drawworks(2) Cat D379 rated @ 550 hpMud Pumps(2) Cat 3508B rated @ 900 hpLight Plant(2) Cat C-18 rated @ 630 hpGenerators(2) Marathon rated @

425 kW / 607 kVA / 0.7 pf

BOP EQUIPMENT

**Annular** Shaffer 13-5/8" 5M Spherical

Single Ram None

**Double Ram** Shaffer 13-5/8" 5M SL

Accumulator Koomey 6-station / 200 gallon

Choke Manifold Cameron 4-1/16" 5M

STORAGE CAPACITIES

**Drilling Water** 400 bbl

Diesel 11,250 gallons

MUD SYSTEM

Trip Tank Pump

Mud Pumps (2) Oilwell A-1100-PT triplex

rated @ 1100 hp, each driven by (1) Caterpillar 3508B rated @

900 hp

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

**Process Pit** (424 bbl) three-compartment

w/ (2) 10 hp mud agitators

Suction Pit (473 bbl) three-compartment

w/ (4) 10 hp mud agitators

Trip Tank (128 bbl) one-compartment

w/ (1) 10 hp mud agitator 4x3x13 @ 30 hp / 1200 rpm

Shale Shakers (2) Derrick FLC-503

linear-motion

**Degasser** Double Life DAD-DP atmospheric

**Desander** NOV 2-cone / 10"

**Desander Pump** 6x5x14 @ 75 hp / 1200 rpm

Desilter NOV 16-cone / 4"

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

TUBULARS

**Drill Pipe** 5" 19.50# G-105 5" 19.50# S-135

5" HWDP

**Drill Collars** As needed for normal

drilling operations

# Chesapeake Operating, Inc.'s Closed Loop System Nereid 1 Federal # 1H Unit P, Sec. 1, T-15-S R-31-E 660' FSL & 100' FEL Chaves Co., NM API # TBD

# Equipment & Design:

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

- (2) Derrick FLC-503 linear motion shale shakers
- (1) NOV 16-cone/4" Desilter
- (1) 400 bbl 'frac tank' for fresh water
- (1) 500 bbl 'frac tank' for brine water

Detailed mud system for drilling operations is attached.

## **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 I office in Hobbs (575-6161) 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 the CRI is: NM-01-0006 Should this facility not be available, Sundance Disposal is the alternative site. The permit # for this facility is: NM-01-0003.