

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

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JUN 11 2010

NMOC D ARTESIA

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 NMOC 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 73154-0496
Facility or well name: PLU Ross Ranch 30 Federal Com. # 1H
API Number: 30-015- 38356 OCD Permit Number: 211027
U/I. or Qtr/Qtr P Section 19 Township 25 South Range 30 East County: Eddy
Center of Proposed Design: Latitude 32.093773 Longitude -103.91286 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

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: Controlled Recovery, Inc. Disposal Facility Permit Number: NM-01-0006
Disposal Facility Name: Sundance Disposal Disposal Facility Permit Number: NM-01-0003

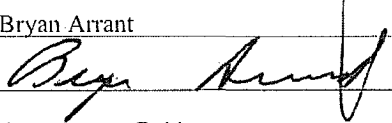
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☒ No

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: Senior Regulatory Compl. Sp.
Signature:  Date: 06/02/2010
e-mail address: bryan.arrant@chk.com Telephone: (405)935-3782

**Chesapeake Operating, Inc.'s Closed Loop System
PLU Ross Ranch 30 Federal Com. # 1H
Unit P, Sec. 19, 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-285 P 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.

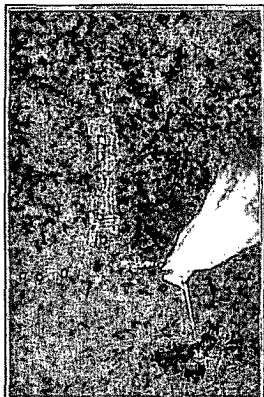
The permit number for Controlled Recovery, Inc. is: NM-01-0006

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)
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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 GEMCC

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

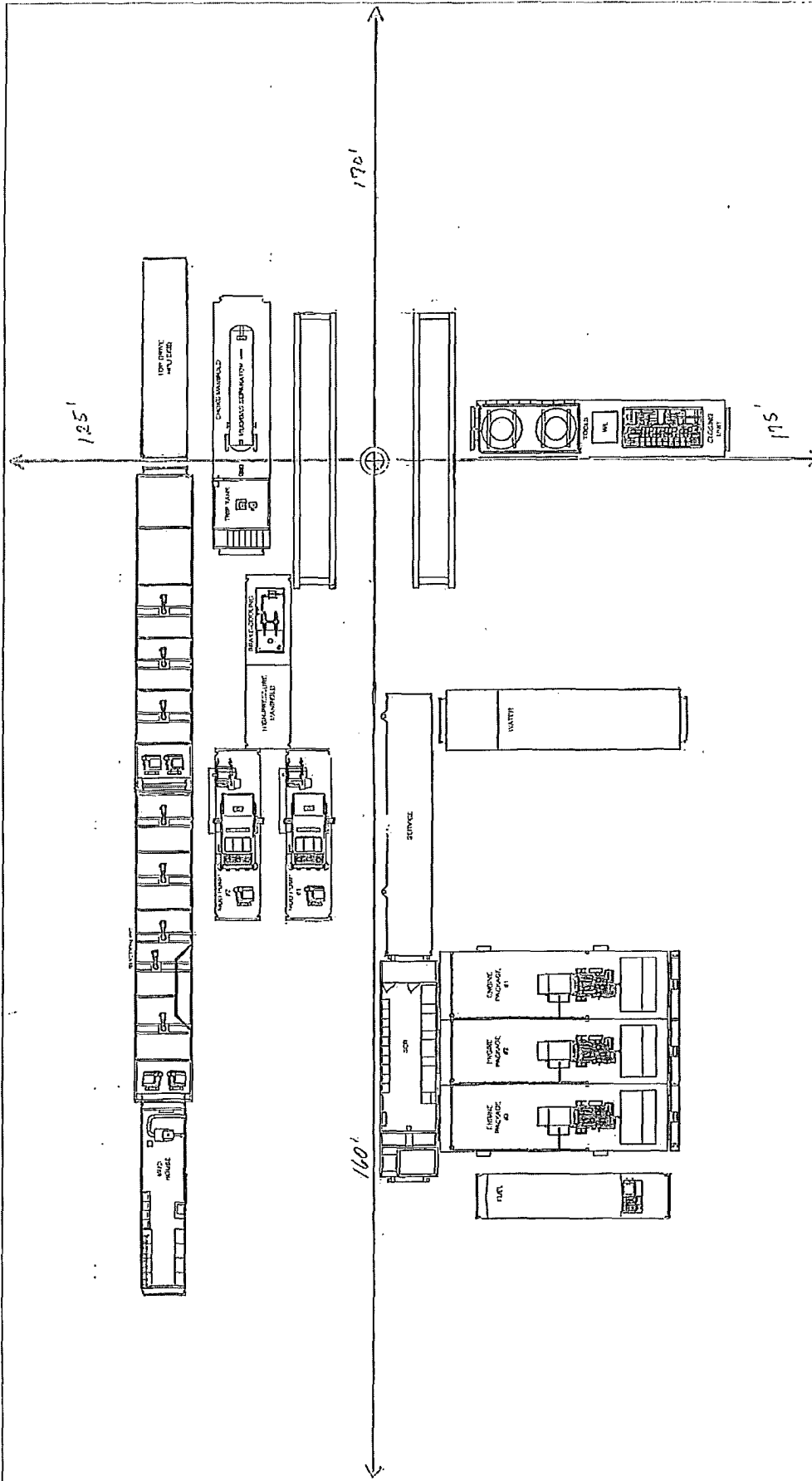
Mud Pumps	(2) National 10-P-130 triplex rated @ 1300 hp, each driven by (1) GE 752 HT DC traction motor rated @ 1130 hp
Charging Pumps	(2) 6x5x14 @ 60 hp / 1200 rpm
Process Pit	(456 bbl) four-compartment w/ (3) 10 hp mud agitators
Suction Pit	(338 bbl) two-compartment w/ (3) 10 hp mud agitators
Trip Tank	(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
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330'



GAC Drilling Co., L.L.C. OAKLAND, CA, U.S.A. TEL: 510-885-7700 FAX: 510-885-7701		RIG 116 DRILL SITE	
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