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.	GRID #: 147179		
	GRID #. <u>14/1//</u>		
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Facility or well name CROW FLATS 14 16 28 USA 5H			
API Number. 30-015-39509 OCD Permit Numb	her 212063		
U/L or Qtr/Qti G Section 19 Township 24S Range 29	•		
Center of Proposed Design: Latitude <u>32 204920</u> Longitude <u>-10</u>	, NAD [A1927 ] 1985		
Sui face Owner. 🛛 Federal 🗌 State 🗋 Private 🗌 Tiibal Tiust or Indian Allotment			
<ul> <li>2. /</li> <li>Closed-loop System: Subsection H of 19.15 17.11 NMAC</li> <li>Operation X Drilling a new well X Workover or Drilling (Applies to activities which requ</li> <li>Above Ground Steel Tanks or X Haul-off Bins</li> </ul>	tire prior approval of a permit or notice of intent) 🗌 P&A		
3			
Signs: Subsection C of 19.15.17.11 NMAC This is an amended permit as	another drilling rig is scheduled to drill this well.		
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone	numbers		
Signed in compliance with 19.15.3 103 NMAC	~		
Closed-loop Systems Permit Application Attachment Checklist:       Subsection B of 19.15 1         Instructions: Each of the following items must be attached to the application. Please indic attached.       Design Plan - based upon the appropriate requirements of 19 15 17.11 NMAC         Image: Imag	7.12 NMAC <b>NMOCD ARTESIA</b>		
5 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</u> : (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. CRI Disposal I	Facility Permit Number NM-01-0006		
Disposal Facility Name <u>SUNDANCE DISPOSAL</u> Disposal I	Facility Permit Number. <u>NM-01-0003</u>		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information below) X 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.			
	or Regulatory Compr. Sp.		
Signature: 17.44 December D	Date		
e-mail address: <u>bryan.arrant@chk com</u> Telep	phone. (405)935-3782		

OCD Approval: Definit 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.			
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 <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below)			
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			
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	120 SPECIFICA	ATIONS
	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         Top Drive       Tesco 250-HMIX (250 ton) rated @ 700 hp powered by Tesco 630 hp hydraulic power unit         Pipe-Handling       Varco ST-80 "iron Roughneck" powered by Aberdeen Dynamics 18114-2 hydraulic power unit rated @ 60 hp		
MAST & SUBSTRUCTURE		MUD SYSTEM	
Mast Design Height Capacity Substructure Design Floor Height	Veristic Technologies Cantilev 142' 573k Static Hook Load (10 line Veristic Technologies Box-on-1 23'	er Mud Pumps	(2) Oilwell A-1100-PT triplex rated @ 1100 hp, each driven by (1) Caterpillar 3508B rated @ 900 hp (2) 6x5x14 @ 60 hp / 1200 rpm
Clear Height Capacities	19' 573k Casing / 370k Setback	Process Pit Suction Pit	(424 bbl) three-compartment w/ (2) 10 hp mud agitators (473 bbl) three-compartment w/ (4) 10 hp mud agitators
TRANSPORT Estimated Loads	30 (less tubuiars)	Trip Tank Trip Tank Pump Shale Shakers	(128 bbl) one-compartment w/ (1) 10 hp mud agitator 4x3x13 @ 30 hp / 1200 rpm (2) Derrick FLC-503 linear-motion
POWER PACKAGE Drawworks Mud Pumps Light Plant Generators	(2) Cat D379 rated @ 550 hp (2) Cat 3508B rated @ 900 hp (2) Cat C-18 rated @ 630 hp (2) Marathon rated @ 425 kW / 607 kVA / 0.7 pf		Double Life DAD-DP atmospheric NOV 2-cone / 10" 6x5x14 @ 75 hp / 1200 rpm NOV 16-cone / 4" 6x5x14 @ 75 hp / 1200 rpm (2) 6x5x14 @ 75 hp / 1200 rpm
BOP EQUIPMENT Annular Single Ram Double Ram Accumulator	Shaffer 13-5/8" 5M Spherical None Shaffer 13-5/8" 5M SL Koomey 6-station / 200 gallc		
Choke Manifold	Cameron 4-1/16" 5M	TUBULARS Drill Pipe	5" 19.50# G-105 5" 19 50# S-135 5" HWDP
STORAGE CAPACITIE Drilling Water Diesel	3 400 bbl ≩1,250 gallons	Drill Collars	As needed for normal drilling operations

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## Chesapeake Operating, Inc.'s Closed Loop System CROW FLATS 14 16 28 USA 5H Unit D, Sec. 14, T-26-S R-28-E Eddy Co., NM API # 30-015-39509

**Equipment & Design:** 

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits. For cuttings and solids removal this rig has:

Two- Derrick FLC-503 Dual Shale Shakers-Linear Motion One- NOV 2-Cone/10" Desander One-Double Life DAD-DP Atmospheric Degasser One-NOV 16 Cone/4" Desilter One-400 bbl tank for fresh water One-500 bbl tank for 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 minor 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.

This is an amended permit as another drilling rig is scheduled to drill this well.