

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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State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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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: Apache Corporation OGRID #: 873
Address: 6120 S. Yale Ave., Suite 1500 Tulsa, Oklahoma 74136
Facility or well name: EAST BLINEBRY DRINKARD UNIT # 108
API Number: 30-025-39392 OCD Permit Number: P1-D1041
U/L or Qtr/Qtr LOT 13 Section 1 Township 21S Range 37E County Lea
Center of Proposed Design: Latitude 32.510931° N Longitude 103.121170° W 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: Sundance Incorporated Disposal Facility Permit Number: NM-01-0003
Disposal Facility Name: _____ Disposal Facility Permit Number: _____
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): Sam Hampton Title: Drilling Engineer
Signature: [Signature] Date: 1/26/2009
e-mail address: sam.hampton@apachecorp.com Telephone: 918 491-4954

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

OCD Representative Signature: _____

Approval Date: _____

Title: _____

Geologist

OCD Permit Number: _____

P1-01041

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: **11-02-09**

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please identify 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: **Sundance**

Disposal Facility Permit Number: **NM-D1-0003**

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): _____

Curt Jones

Title: **Drilling Engineer**

Signature: _____

[Signature]

Date: _____

11-5-09

e-mail address: _____

curt.jones@apachecorp.com

Telephone: _____

918-491-4900

[Signature]

Closed Loop Mud System

Drilling muds will circulate through a closed system consisting of steel tanks, mud pumps, piping, to the rotating hood, return piping back to the steel tanks. Solids will be removed from the waste streams to steel pits using these types of equipment.

1. Shale shakers will be installed with graduated screens to remove solids from all mud streams.
2. A mud cleaner will be installed to remove finer solid particles. Drilling mud will circulate by pump through the mud cleaner. The pump will generate optimal pressure for the mud cleaner cones to process solids.
3. A centrifuge will pick up effluent from the mud cleaner to process smaller particles.
4. Flocculants will be added to the waste stream entering the centrifuge to flocculate solids. Flocculation increases the efficiency of the centrifuge to remove solids to a smaller size.
5. Roll off bins will installed to handle the solids produced by the shale shaker, mud cleaner, and centrifuge. The solids will drop directly into the bins. Once a bin is full it will be hauled to OCD approved disposal site.

Operation and Maintenance

Personnel with appropriate training and experience will be on-site 24 hours per day to operate and maintain the solids control equipment. If equipment problems occur the repairs or parts replacement will be done by qualified personnel. Personnel will monitor the solids levels in the roll off bins. Trucking companies will be notified to pick up the full bins and move the new bins into place.

Closure Plan

Cuttings and solids will be disposed of at an OCD permitted facility according to OCD guidelines. **Where possible fluids will be recycled.** If unable to use the fluids the fluids will be hauled to an approved disposal facility. Fluids will be temporarily stored in tanks of sufficient volume to maintain the liquids on-site.

Rig Layout Diagram

