| District II 1301 W. Grand Avenue, Artesia, NM 882 PEB 1 4 2012 District III 1000 Rub Brazes Road, Artes, NM 87410 | State of New Mexico y 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 NMOCD District Office |
|--|--|--|
| (that only use above ground steel tank. | stem Permit or Closure Plan s or haul-off hins and propose to implen e of action: Permit Closure | |
| Instructions: Please submit one application (Form C-144 CL closed-loop system that only use above ground steel tanks or p Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its respon | haul-off bins and propose to implement waste e operator of liability should operations result i | removal for closure, please submit a Form C-144. n pollution of surface water, ground water or the |
| 1 | | |
| | OGRID # | |
| Address: 600 N Marienfeld St., Ste 600, Midland, TX 7 | 9701 | |
| Facility or well name. Thyme APY Federal No 4 | <u> </u> | |
| API Number: 30-025- 40438 | OCD Permit Number: Ψ] - | 04109 |
| U/L or Qtr/Qtr Section1Township23S | Range <u>32E</u> County: <u>Lea</u> | |
| Center of Proposed Design Latitude 32° 20'34.45" L | ongitude <u>103° 38' 08.31"</u> NAD [.] [] I | 927 🔀 1983 |
| Surface Owner: 🛛 Federal 🗌 State 🗋 Private 🗋 Tribal Tr | rust or Indian Allotment | |
| Image: Subsection H of 19.15.17.11 NM Operation: Image: Subsection H of 19.15.17.11 NM Operation: Image: Subsection H of 19.15.17.11 NM Image: Above Ground Steel Tanks or Image: Haul-off Bins 3. Signs: Subsection C of 19.15.17.11 NMAC Image: 12"x 24", 2" lettering, providing Operator's name, site lo Image: Signed in compliance with 19.15.3.103 NMAC | (Applies to activities which require prior ap | proval of a permit or notice of intent) |
| 4. Closed-loop Systems Permit Application Attachment Chainstructions: Each of the following items must be attached attached. ☑ Design Plan - based upon the appropriate requirement ☑ Operating and Maintenance Plan - based upon the app ☑ Closure Plan (Please complete Box 5) - based upon the | <i>I to the application. Please indicate, by a cl</i> s of 19.15.17.11 NMAC propriate requirements of 19.15.17.12 NMAC | heck mark in the box, that the documents are |
| Previously Approved Design (attach copy of design) | API Number: | - |
| Previously Approved Operating and Maintenance Plan | API Number: | |
| 5. <u>Waste Removal Closure For Closed-loop Systems That U</u> Instructions: Please indentify the facility or facilities for th facilities are required. | | |
| Disposal Facility Name: <u>CR1</u> | | mit Number: <u>R-9166</u> |
| Disposal Facility Name: | | mit Number: |
| Will any of the proposed closed-loop system operations and Yes (If yes, please provide the information below) | No | t will not be used for future service and operations? |
| Required for impacted areas which will not be used for futur Soil Backfill and Cover Design Specifications base Re-vegetation Plan - based upon the appropriate requi Site Reclamation Plan - based upon the appropriate re | d upon the appropriate requirements of Sub- rements of Subsection 1 of 19.15.17.13 NM/ | AC |
| 6. Operator Application Certification: | | • |
| I hereby certify that the information submitted with this app | lication is true, accurate and complete to the | best of my knowledge and belief. |
| | | r Operations Administration |
| Signature 2 JANO (and) | | |
| | | |
| c-mail address: <u>zfarns@cimarex com</u> Form C-144 CLEZ | Telephone: Oil Conservation Division | 432-620-1938 Page 1 of 4 |

•

:

:

.

!

.

-

.

.

| 7. OCD Approval: D Permit Application (including closure plan) | Elosure Plan (only) | | | | |
|--|--|--|--|--|--|
| OCD Representative Signature: | Approval Date: 02/14/12 | | | | |
| Title: | OCD Permit Number: <u>P1-04189</u> | | | | |
| 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 Report fing Waste Removal Closure For Closed-16 | | | | | |
| 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: | | | | | |
| Were the closed-loop system operations and associated activities perf | formed on or in areas that <i>will not</i> be used for future service and operations?) [] No | | | | |
| Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | | | | | |
| Derator 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 behef. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. | | | | | |
| Name (Print): | 1'itle: | | | | |
| Signature | Date: | | | | |
| e-mail address | Telephone: | | | | |

ı.

-

,

i

read of the second s

Equipment List

- Primary Shakers
- Mud Cleaner hydro-cyclones
- 1 or 2 Centrifuges (depending on well depth)
- De-watering system with pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing (may not be necessary for shallower wells)
- Drying Augur
- Sump Drying Augur
- Sump
- Cuttings Boxes
- Reserve Fluids Tank Farm
- Wire Mesh Trash Enclosure (spent motor oils kept in separate containers and later sent to approved landfill)

Operation and Maintenance

The Cimarex Zero Discharge system is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This ensures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

These closed loop operations can be monitored by our service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes After the well is finished and the rig has moved, the entire location is scrapped and tested for all regulated toxic materials. If found they are removed and disposed of per regulatory requirements.

<u>Closure Plan</u>

During drilling operations, all liquids, drilling fluids, and cuttings will be hauled off via CRI (Controlled Recovery Incorporated, Permit R-9166).



Closed Loop with Drying Auger and Dewatering System



DISTRICT 1 1855 H. French Dr., Hobbs, HM 88240 DISTRICT 11 1301 M. Grand Avenue, Artesin, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Artec. NM 87410

DISTRICT IV 1220 S. SL. Francis Dr., Santa Pe, NW 87505

State of New Mexico Energy, Minerals and Natural Resources Department

...

Form C-102 Revised July 16, 2010

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 07505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

| API Number | Pool Code Pool Name | | | | | | | | | |
|---|---|---------------|------------------|--|---|--|--|--|--|--|
| Property Code | Property Name THYME "APY" FEDERAL | | | | Well Number 4 | | | | | |
| OGRID No. | Operator Name CIMAREX ENERGY CO. OF COLORADO | | | | | Elevation 3736' | | | | |
| Surface Location | | | | | | | | | | |
| UL or lot No. Section Township | Range Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | | | | |
| LOT 4 1 23 S | 32 E | 330 | NORTH | 375 | WEST | LEA | | | | |
| Bottom Hole Location If Different From Surface | | | | | | | | | | |
| UL or lot No. Section Township | , , , , , , , , , , , , , , , , , , , | Feet from the | North/South line | Feet from the | East/West line | County | | | | |
| M 1 23 S Dedicated Acres Joint or Infill C | 32 E | 330 | SOUTH | 375 | WEST | LEA | | | | |
| bedrated weres Joint of Initia | onsondation coale order | | | | | | | | | |
| NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION | | | | | | | | | | |
| 1375 SL Lat - H 1375 SL Long - W H 1375 NMSPCE - K 1375 (NAD) 1 Image: State of the | -83) | | | I hereby cer conlained herein the best of my I this organization interest or unlead location or has c this location pur computery point the division. Signature Printed Name Emeil Address SURVEYO: I hereby certify on this plat wa actual surveys supervison and correct to the Date Suffeyed Signature of Suffeyed Professional I | R CERTIFICAT that the well locals s piolised from field made by me or that the same is best of ray below the same is the first for the same is the same is the same is the same is the sam | ation ele to and that ing in the ole with an sniterest, or a interest by Date ION on shown notes of under my true and 50 50 50 50 50 50 50 50 50 50 | | | | |
| | | | | | · Gary L. Jones <u>SIN SURVEYS</u> | 24892 | | | | |



i





i,