| BITS. FIRSTST, Artesia, NM 88210 <u>District III</u> 1000 Ring Brazos Road Aztec, NM 87410 MAR A C | State of New Mexico y Minerals and Natural Resources Department Oil Conservation Division 220 South St. Francis Dr. Santa Fe, NM 87505 | Form C-144 CLEZ Revised August 1, 2011 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 Them Sys | tem Permit or Closure Plan | Application |
| (that.only use above ground steel tanks | or haul-off bins and propose to implen | ment waste removal for closure) |
| | of action: Permit Closure | · · · · · · · · · · · · · · · · · · · |
| Instructions: Please submit one application (Form C-144 CLL closed-loop system that only use above ground steel tanks or h Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its response | aut-off bins and propose to implement waste 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. Operator: CHEVRON U.S.A. INC. | , OGRID #: | 4323 |
| Address: 15 SMITH ROAD, MIDLAND TEXAS 79705 | | |
| Facility or well name: HARRY LEONARD NCT-E | 0 | |
| API Number: 30-025-25198 | OCD Permit Number: | -05066 |
| U/L or Qtr/Qtr A Section 16 To | wnship 21S Range 37E | County: LEA |
| Center of Proposed Design: Latitude | Longitude | NAD: 1927 [] 1983 |
| Surface Owner: 🗌 Federal 🗋 State 🛛 Private 🛄 Tribal Tru | ust or Indian Allotment | |
| Closed-loop System: Subsection H of 19.15.17.11 NM. Operation: □ Drilling a new well ⊠ Workover or Drilling (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 loce | Applies to activities which require prior ap | proval of a permit or notice of intent) |
| Signed in compliance with 19.15.16.8 NMAC | | |
| 4. Closed-loop Systems Permit Application Attachment Cheer Instructions: Each of the following items must be attached attached. ☑ Design Plan - based upon the appropriate requirements ☑ Operating and Maintenance Plan - based upon the appr ☑ Closure Plan (Please complete Box 5) - based upon the □ Previously Approved Design (attach copy of design) | to the application. Please indicate, by a cl of 19.15.17.11 NMAC opriate requirements of 19.15.17.12 NMAC | heck mark in the box, that the documents are C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Previously Approved Operating and Maintenance Plan | API Number: | |
| ^{5.} Waste Removal Closure For Closed-loop Systems That Ut Instructions: Please indentify the facility or facilities for the facilities are required. Disposal Facility Name: CONTROLLED RECOVERY IN Disposal Facility Name: Will any of the proposed closed-loop system operations and a Yes (If yes, please provide the information below) Required for impacted areas which will not be used for future Soil Backfill and Cover Design Specifications based Re-vegetation Plan - based upon the appropriate require | e disposal of liquids, drilling fluids and dri IC. (CRI) 2360 Disposal Facility Per Disposal Facility Per ssociated activities occur on or in areas that No service and operations: I upon the appropriate requirements of Subsection I of 19.15.17.13 NM/ | ill cuttings. Use attachment if more than two mit Number: R 9166-NM-01-0006 mit Number: |
| Site Reclamation Plan - based upon the appropriate req | unements of Subsection G of 19.15.17.13 I | |
| Operator Application Certification: I hereby certify that the information submitted with this appli | cation is true, accurate and complete to the | hest of my knowledge and helief |
| Name (Print): Scott Haynes | ^c Title: Permit Sp | · · · · |
| Sutto | - | |
| Signature: 1000 1000 | | /2013 |
| e-mail address: toxo@chevron.com | Telephone: 432-68 Oil Conservation Division | |
| Form C-144 CLEZ | OIL CONSERVATION LITVISION | 1AR 1 3 2013 |

| 7. OCD Approval: Permit Application (including closure plan) Closure F | Plan (only) | | | |
|--|--|--|--|--|
| OCD Representative Signature: Majery Brown Title: Compliance Office | $\frac{1}{2013}$ Approval Date: $\frac{3/8/2013}{2013}$ | | | |
| Intie: | | | | |
| 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 c | losure activities have been completed. | | | |
| Closure Completion Date: | | | | |
| 9. Closure Benert Begerding Weste Bemevel Closure For Closed-Joan System | s That Utiliza Abaya Ground Steel Tanks or Haul off Bins Only: | | | |
| <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> 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. | , i | | | |
| 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) No | | | | |
| Required for impacted areas which will not be used for future service and operate Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | ions: | | | |
| | | | | |
| Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required | | | | |
| Name (Print): | Title: | | | |
| Signature: | Date: | | | |
| e-mail address: | Telephone: | | | |
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PREWORK:

- 1. Utilize the rig move check list.
- 2. Check anchors and verify that pull test has been completed in the last 24 months.
- 3. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
- 4. Ensure that location is of adequate build and construction.
- 5. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
- 6. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
- 7. For wells to be worked on or drilled in an H₂S field/area, include the anticipated maximum amount of H₂S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
- 8. If the possibility of trapped pressure exists, check for possible obstructions by:
 - Pumping through the fish/tubular this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
 - Dummy run make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction. Prior to making any dummy run contact RE and discuss.

If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

• Hot Tap at the connection to check for pressure and bleed off

Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

Procedure:

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for MOC

- 1. Verify that well does not have pressure or flow. If the well has pressure, note tubing and casing pressures on Wellview report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
- 2. MI & RU workover unit.
- Unseat pump, POOH with rods and pump. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary. ND wellhead, unset TAC, NU BOP. POOH and LD 1 jt, PU 5-1/2" packer and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on Wellview report. Release and LD packer.
- PU 2-3 jts of tubing and RIH to 4,200' to tag for fill (TAC 3591', Perfs 3728-3968', EOT 4,143', PBTD 6,354'). Do not push TAC into perfs. POOH while scanning 2-7/8" prod tubing. LD all non-yellow band joints. If fill is tagged:
 - A. Above 4,200' contact remedial engineer and verify if the clean out is necessary. If so, continue with foam/air clean out per step 5.
 - B. Below 4,200 clean out not needed, skip step 5.

Note: Strap pipe out of the hole to verify depths and note them on Wellview report. Send scan log report to <u>LGBI@chevron.com</u>.

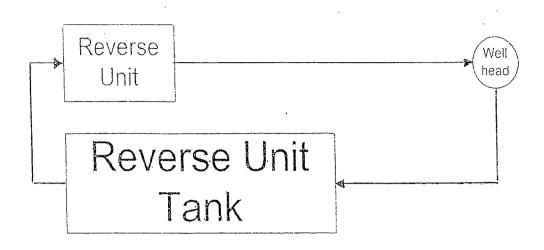
- 5. PU and RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS. RU power swivel and clean out to 4,400' with foam/air unit (continue to supplemental procedure and in accordance with attached SOG). POOH with 2-7/8" WS and bit. LD bit & BHA.
- 6. Contact sonic tool rep to be on site during job. Verify that WS is clean, inspect for excessive rust. PU and RIH with Sonic Hammer tool and work string to 3,968' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tubing and casing pressures.
- 7. MI & RU Petroplex. Titrate acids and verify concentration (HCI ±1.5%) report results in daily work summary. Treat all intervals from 3,725' to 3,968' with 30 bbls of 2% KCL brine water per interval (refer to Table A). Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating intervals with 2% KCL brine.
- Follow the brine water wash with 4,550 gals 15% NEFE HCl of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 1,450 gallons of acid @ 5 BPM over first treating interval from 3,725'-3,787', monitor casing pressure not exceeding 500 psi. Flush tubing with 2% KCL brine after every acidized interval, make a connection and continue with remaining interval. Refer to Table A.

| Interval | Depth | Interval (Ft.) | Acid Volume (gal) |
|----------|---------------|----------------|-------------------|
| 1 | 3725' - 3787' | 34 | 1,450 |
| 2 | 3787' - 3846' | 27 | 1,150 |
| 3 | 3846' - 3908' | 27 | 1,150 |
| 4 | 3922' - 3968' | 18 | 800 |
| | | | 4,550 |

Table A: Perforation Intervals for acid.

- 9. Shut in well for 1 hr for the acid to spend. Monitor casing pressure to keep it below 500 psi. Bleed off excess pressure if necessary.
- 10. Scale squeeze well with a total of 200 bbls 2% KCL brine water and 3 drums (165 gallons) Baker SCW-358 Scale Inhibitor Chemical. For each stage, pump chemical as a concentrated pill of 41 gals of SCW-358 with 10 bbl of 2% KCL then displaced with 30 bbls of 2% KCL per interval. Continue moving uphole with Sonic Hammer. Pump at max rate of 5 BPM per pump schedule. Ensure top of tubing is flushed with brine water before making a connection. After final stage, move sonic hammer above top perf and displace with 40 bbls 2% KCL. Refer to Table B.

CHEVRON –REVERSE UNIT – SCHEMATIC – OPERATING AND MAINTENANCE – CLOSURE PLAN



Notes:

1. This is a generic layout, exact equipment orientation will vary from location to location.

2. This is a schematic representation, so drawing is not to scale.

Operating and Maintenance Plan

1. All recovered fluids and solids will be discharged into reverse tank.

2. Reverse tank will be continuously monitored by designated rig crew so that tank will not be overfilled.

3 Rig crew will visually inspect fluid integrity of reverse tank on a daily basis.

4. Documentation of visual inspection of reverse tank will be captured on daily completion morning report

Closure Plan

1. All recovered fluids and solids will be removed from reverse tank and hauled off of site

2. All recovered fluids and solids will be disposed of at a suitable off-location waste disposal facility