

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**5. Lease Serial No.
NMLC060329

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
HT FEDERAL 5

2. Name of Operator

CIMAREX ENERGY COMPANY OF CO

Contact: CRISTEN BURDELL

C-Mail: cburdell@cimarex.com

9. API Well No.

30-025-39975-00-S1

3a. Address

600 NORTH MARIENFELD STREET, SUITE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 918-560-7038

10. Field and Pool, or Exploratory
MALJAMAR

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 T17S R32E SWNW 2310FNL 990FWL

11. County or Parish, and State

LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

H2S gas analysis for facility as requested

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #273917 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 05/04/2015 (15LJ1029SE)

Name (Printed/Typed) CRISTEN BURDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/27/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

MAY 06 2016

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

| | | | |
|---------------------|-----------------|------------------|-------------------------------|
| Company: | CIMAREX ENERGY | Sales RDT: | 33512 |
| Region: | PERMIAN BASIN | Account Manager: | WAYNE PETERSON (575) 910-9389 |
| Area: | MALJAMAR, NM | Sample #: | 573275 |
| Lease/Platform: | H T 18 FED UNIT | Analysis ID #: | 113504 |
| Entity (or well #): | 5 | Analysis Cost: | \$90.00 |
| Formation: | UNKNOWN | | |
| Sample Point: | WELLHEAD | | |

| Summary | | Analysis of Sample 573275 @ 75 °F | | | | | |
|--------------------------------|--------------|-----------------------------------|----------|---------|------------|---------|---------|
| Sampling Date: | 10/10/11 | Anions | mg/l | meq/l | Cations | mg/l | meq/l |
| Analysis Date: | 10/24/11 | Chloride: | 143017.0 | 4033.99 | Sodium: | 73536.6 | 3198.66 |
| Analyst: | SANDRA GOMEZ | Bicarbonate: | 61.0 | 1. | Magnesium: | 2187.0 | 179.91 |
| TDS (mg/l or g/m3): | 233929.8 | Carbonate: | 0.0 | 0. | Calcium: | 12761.0 | 636.78 |
| Density (g/cm3, tonne/m3): | 1.156 | Sulfate: | 868.0 | 18.07 | Strontium: | 281.0 | 6.41 |
| Anion/Cation Ratio: | 1 | Phosphate: | | | Barium: | 0.1 | 0. |
| | | Borate: | | | Iron: | 14.0 | 0.51 |
| | | Silicate: | | | Potassium: | 1204.0 | 30.79 |
| Carbon Dioxide: | 480 PPM | Hydrogen Sulfide: | | 17 PPM | Aluminum: | | |
| Oxygen: | | pH at time of sampling: | | 5.7 | Chromium: | | |
| Comments: | | pH at time of analysis: | | | Copper: | | |
| RESISTIVITY: .044 OHM-M @ 67°F | | pH used in Calculation: | | 5.7 | Lead: | | |
| | | | | | Manganese: | 0.100 | 0. |
| | | | | | Nickel: | | |

| Conditions | | Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl | | | | | | | | | | |
|------------|--------------|---|--------|--|--------|--------------------------------|--------|--------------------------------|--------|-----------------------------|--------|-----------------------|
| Temp | Gauge Press. | Calcite CaCO ₃ | | Gypsum CaSO ₄ *2H ₂ O | | Anhydrite CaSO ₄ | | Celestite SrSO ₄ | | Barite BaSO ₄ | | CO ₂ Press |
| °F | psi | Index | Amount | Index | Amount | Index | Amount | Index | Amount | Index | Amount | psi |
| 80 | 0 | -0.63 | 0.00 | -0.07 | 0.00 | -0.03 | 0.00 | -0.13 | 0.00 | -0.48 | 0.00 | 0.73 |
| 100 | 0 | -0.55 | 0.00 | -0.15 | 0.00 | -0.04 | 0.00 | -0.16 | 0.00 | -0.68 | 0.00 | 0.87 |
| 120 | 0 | -0.47 | 0.00 | -0.22 | 0.00 | -0.03 | 0.00 | -0.17 | 0.00 | -0.85 | 0.00 | 1.01 |
| 140 | 0 | -0.38 | 0.00 | -0.27 | 0.00 | 0.01 | 4.19 | -0.17 | 0.00 | -1.01 | 0.00 | 1.13 |

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.