

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

OCD Artesia

FORM APPROVED OMB NO. 1004-0135

| | Expires: | July | 31, | 20 |
|----------|----------|------|-----|----|
| ease Ser | ial No | | | |

| SUNDKT NOTICES AND REPORTS ON WELL | . 3 |
|---|------------|
| Do not use this form for proposals to drill or to re-en | ter an |
| shandaned well. Has form 2460 2 (ABD) for such are- | |

NMNM025559 6. If Indian, Allottee or Tribe Name

| SUBMIT IN TRIPLICATE - Other instructions on reverse side. | | | | 7. If Unit or CA/Agreem | ent, Name and/or No. | | |
|--|--|---|---|--|---|---|--|
| 1 Type of Well | | | | | 8 Well Name and No IRWIN 13 FEDERAL 4 | | |
| Oil Well Gas Well Other 2. Name of Operator Contact. ZENO FARRIS | | | | 9. API Well No | | | |
| CIMAREX ENERGY COMPANY OF CO | | | | | 30-015-38101-00 | | |
| 3a Address 600 NORTH MARIENFELD STREET SUITE 600 Ph. 432.62 MIDLAND, TX 79701 | | | include area code 1938 |) | 10. Field and Pool, or Exploratory HACKBERRY | | |
| 4 Location of Well (Footage, Sec., 7 | , R, M., or Survey Description) | | | | 11 County or Parish, and State | | |
| Sec 13 T19S R30E SESE 1300FSL 480FEL | | | | | EDDY COUNTY, NM | | |
| 12. CHECK APPI | ROPRIATE BOX(ES) TO I | NDICATE N | ATURE OF 1 | NOTICE, REI | PORT, OR OTHER | DATA | |
| TYPE OF SUBMISSION | | ··· | TYPE O | YPE OF ACTION | | | |
| Subsequent Report Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f. Propose to eliminate 7" casing 8.75" hloe through the curve t. After setting 13.375" to 500' a drill 8.75" hole through the curve t. 2% KCL vis 28-30 to 13068' M. 850 sx EconoCem H plus add additives, 14.5 ppg, 1.22 cf/sx. Note COA on APD to set 9.5% since this location is outside F. | ally or recomplete horizontally, giving will be performed or provide the operations. If the operation result bandonment Notices shall be filed final inspection.) g string, pilot hole and peak to TD per below procedure. Ind 9.625" to 4000' and cempre at KOP 7770' w 8.4 to 10 and 8699' TVD and set 5.5" 1 are tives, 11.99 ppg, 2.44 cf/sx by ld 25% excess. B" casing between 100' and R-111P. | Plug a Plug B Plug B etails, including e subsurface loo Bond No. on f is in a multiple conly after all red Completion a All other asp enting to sur #FW/Brine 7# P-110 ca yld 50% exc | construction and Abandon Back gestimated startic ations and measurements, include assembly and ecets of APD references and sing and cemes. Tail 1596 asse of salt necessions. | Reclamate Recomple Recomple Recomple Temporar Water Dis Required subsompletion in a ne ding reclamation, instead drill emain the san usly permitted lateral w 8.4# ent to 3000' wi 0 sx Versacen | posed work and approximated depths of all pertiner dequent reports shall be first interval, a Form 3160-have been completed, and the leading plus | th markers and zones. led within 30 days 4 shall be filed once and the operator has CEIVED V 17 2011 CD ARTESIA GOR | |
| | ACC | cepted for NMOC | | CO3 | NDILION2 OF | Allico | |
| | Electronic Submission #122 For CIMAREX ENERG nmitted to AFMSS for process | SY COMPANY sing by KURT | OF CO, sent to SIMMONS on | to the Carlsbac 11/15/2011 (12 | I KMS0301SE) | | |
| Name (Printed/Typed) ZENO FA | RRIS | 1 | Title MANAGER OPERATIONS ADMIN | | | | |
| Signature (Electronic S | Submission) | Date 11/10/2011 | | | | | |
| | THIS SPACE FOR | FEDERAL | OR STATE | OFFICE US | | | |
| Approved By CHRISTOPHER WALLS Conditions of approval, if any, are attached. Approval of this notice does not warrant or | | t warrant or | TitlePETROLE | EUM ENGINEER | | Date 11/16/201 | |
| certify that the applicant holds legal or equivalent would entitle the applicant to conduct the second seco | uct operations thereon | | Office Carlsba | | | | |
| Title 18 U S C Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S C Section 1212, make it a cristatements or representations as to | ime for any pers any matter with | son knowingly and un its jurisdiction | d willfully to mal ı. | ke to any department or a | gency of the United | |

CONDITIONS OF APPROVAL

OPERATOR'S NAME: | CIMAREX ENERGY

LEASE NO.: | NM025559

WELL NAME & NO.: | 4-IRWIN 13 FEDERAL SURFACE HOLE FOOTAGE: | 1300' FSL & 480' FEL BOTTOM HOLE FOOTAGE | 330' FNL & 2310' FWL

LOCATION: | Section 13, T. 19 S., R 30 E., NMPM

COUNTY: | Eddy County, New Mexico

A. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Possible brine and water flows in the Artesia and Salado Groups.

Possible lost circulation in the Capitan Reef (if encountered) and the Artesia Group.

- 1. The 13-3/8 inch surface casing shall be set at approximately 500 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Additional cement may be required as the excess calculates to be 1%.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 1000 feet into previous casing string.

 Operator shall provide method of verification. Additional cement may be required as the excess calculates to be 17%.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed. Required due to proximity to measured ore.

CRW 111611