

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD- Hobbs

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

RECEIVED

DEC 04 2008

HOBBSOCD

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

PO Box 140907; Irving, TX 75014-0907

3b. Phone No. (include area code)

972-401-3111

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

2310 FNL & 660 FEL
20-19S-33E

Unit H

5. Lease Serial No.

NM-36916

6. If Indian, Allottee or Tribe Name

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

NM-72609-A

8. Well Name and No.

North Maduro Federal Unit No. 1

9. API Well No.

30-025-30267

10. Field and Pool, or Exploratory Area

Gem; Morrow

11. County or Parish, 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 Add addl Morrow perfs

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included 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)

The N. Maduro Unit Federal No. 1 well is currently producing from Morrow perfs @ 13252'-13265.' Additional Morrow perfs @ 13280'-13435' behind CIBP @ 13276' w/ 10' cmt AND @ 13589'-13618' behind permanent packer w/ 19' cmt.

Cimarex proposes to perform the following operations in order to add additional Morrow pay:

Pinch choke to kill well.

Release packer and POOH w/ tubing.

Perf Morrow 13047'-13056' 4 spf 37 holes.

RIH w/ tbg, set RBP @ 12970' to acidize w/ 1000 gal 7.5% HCl w/ 25% Methanol and 74 ball sealers.

Release RBP, set packer @ 13020' and install gas lift mandrels.

Turn to sales as continued Gem; Morow gas well.

Please see attached WBD and proposed procedure.

APPROVED

NOV 29 2008

JAMES A. AMOS
SUPERVISOR-EPS

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

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory Analyst

Date

November 14, 2008

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, makes 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.

(Instructions on reverse)

NORTH MADURO FED UNIT #1 ADD MORROW PERFORATIONS

API # 30-015-30267
2310' FNL & 660' FEL
Section 20, 19S, R-33E
Gem Morrow Field
Lea County, New Mexico

GL : 3621'

TD: 13725'

SURF CSG : 13-3/8" OD 48#/FT AT 459' TOC 0' (CIRCD)

INTER CSG: 9-5/8" OD 40 #/FT @ 5210' TOC 0' (CIRCD)

PROD CSG : 5-1/2" OD 17# S-95/N-80 @ 13725' W/ 1875 SX.TOC 6400' (TS)
ID=4.892", DRIFT=4.767", CAPACITY=0.9764 GAL/LF

TUBING: 2-3/8" N-80/L-80 W/ AS-1X PKR AT 13102'— MIN RESTRICTION 1.87" (SEE WBD)

PERFS: 13,252-55', 13260', AND 13265'; TT CIBP W/ 10' CMT AT 13266'
(BELOW PLUG) 13280-13618' OVERALL (SEE WBD)

KB : 3643'

PBTD: 13,266'

NOTE: ALL WIRELINE WORK CORRELATED TO APOLLO GR CORRELATION LOG DATED 5/24/88.

1. SUBMIT SUNDRY TO ADD MORROW PERFS TO NMOCD AND BLM. PINCH CHOKE AND ALLOW WELL TO KILL ITSELF THREE DAYS PRIOR TO RIGGING UP.
2. MIRU PULLING UNIT. IF NECESSARY, KILL WELL WITH 6% KCL. RELEASE PACKER AND TOH WITH TUBING AND PACKER, TALLYING OUT. IF ANY SCALE OR FILL FOUND IN LOWER TUBING JOINTS OR PACKER, ANALYZE FOR ACID SOLUBILITY AND CONSULT WITH MIDLAND TO MODIFY ACID JOB.
3. MIRU WIRELINE. MAKE GR/JB RUN TO TAG OTIS WB PACKER AT 13154'. PERFORATE MORROW FROM 13047-13056' (WHICH CORRELATE TO OPENHOLE 13049-13058') 4 SPF, 180 DEG PHASING USING 3-1/8" SLICK GUNS AND PREMIUM CHARGES – TOTAL HOLES 37. RDMO WIRELINE.
4. RIH W/ RBP W/ BALL CATCHER, TREATING PACKER, AND TUBING. TEST TUBING IN HOLE TO 8500 PSI. SET RBP AT 13125'. PULL UP AND TEST TO 500 PSI. MOVE PACKER UPHOLE TO +/- 12970' AND SET. ACIDIZE USING 1000 GAL 7.5% HCL W/ 25% METHANOL AND 74 BALL SEALERS. MAX RATE 5 BPM, MAX PRESSURE 8000 PSI. FLOW/SWAB BACK LOAD.
5. RELEASE PACKER, LOWER AND LATCH RBP. RELEASE RBP AND TOH WITH TUBING, PACKER AND RBP. RUN IN HOLE WITH 4 JOINTS TAILPIPE, PACKER, AND GAS LIFT MANDRELS. SET PACKER AT +/-13020'.
6. SWAB WELL AND KICK OFF FLOWING FROM MORROW PERFORATIONS. IF WELL WILL NOT KICK OFF ON FIRST DAY, RDMO PULLING UNIT AND RIG UP SWAB RIG.

Cimarex Energy Co. of Colorado

N. Maduro Fed Unit #1

Spudded 03-23-88
Gem; Strawn
30-025-30267

CURRENT WELLBORE

N. Krueger 11-14-08

KB:
CH:
GL: 3621'

2310 FNL & 660 FEL
20-19S-33E
Unit H
Lea County, New Mexico

Casing Strings:

13-3/8" (17-1/2" hole), 48# H-40
@ 460' w/ 500 sx cmt
TOC @ surface - circ

9-5/8" (12-1/4" hole), 40# N-80
@ 5209' w/ 2100 sx cmt
TOC @ surface - circ

2-7/8" tubing w/ pkr to 13111'

Otis WB perm pkr @ 13154'

Thru-tbg CIBP @ 13276' w/ 10' cmt

Otis WB perm pkr @ 13529'
w/ cmt to 13510'

5-1/2" (8-3/4" hole) 17# S-95, N-80
@ 13725' w/ 1875 sx cmt
TOC @ 6400'

Delaware 5313'

Bone Spring 7844'

Wolfcamp 10924'

Strawn 12116'

Atoka 12446'

Atoka LS 12820'

Morrow 12956'

Morrow 13252'-13265'

Morrow 13280'-13346'
Morrow 13410'-13435'

Morrow 13589'-602' 13606'-618'

TD = 13725'