

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTRECEIVED
NOV 27 2012
NMOC DARTESIAFORM 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.5. Lease Serial No.
NMNM96849

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION8. Well Name and No.
ROCKET FEDERAL 1

2. Name of Operator

COG OPERATING LLC

Contact: STORMI DAVIS

E-Mail: sdavis@concho.com

9. API Well No.
30-015-34795

3a. Address

2208 WEST MAIN STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)

Ph: 575-748-6946
Fx: 575-748-696810. Field and Pool, or Exploratory
SWD; DELAWARE

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

Sec 4 T26S R29E SESE 116FSL 564FEL

11. County or Parish, and State

EDDY 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 recompleate 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 recompletion 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.)

COG Operating LLC respectfully requests approval to convert this well to SWD as follows (OCD Order SWD-1356):

1) Set CIBP + 35' cmt @ 4825'.

2) Perf Delaware 3228-3338', 3370-3450', 3492-3520', 3578-3724', 3816-3834', 3900-3966', 3982-4000', 4100-4230', 4272-4304', 4326-4358', 4378-4420', 4446-4502', 4530-4546', 4594-4626', 4736-4758'.

3) Set nickel-plated injection pkr on 3.5"/9.3/J55/EUE Glassbore internally-lined tbg @ 3175'. Circ annulus full of clean inhibited pkr fluid and test annulus to 500# for 30 mins.

APPROVED

NOV 27 2012

Jennison Mason
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICEAccepted for record
NMOC DARTESIA 12/19/12

14. Thereby certify that the foregoing is true and correct.

Electronic Submission #149451 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 09/20/2012 ()

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 09/10/2012

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.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Additional data for EC transaction #149451 that would not fit on the form

32. Additional remarks, continued

Current and proposed schematics are attached.

Rocket Fed. 1

116' PSL, 564' FEL (surf)
 2277' PSL, 387' FEL (bhl)
 P-4-26s-29e
 Eddy, NM
 30-015-34795

Zero: 17' AGL
 KB: 2981
 GL: 2964'

Size	wt.	Grade	Conn	Depth
9 5/8"	36	J55	STC	670'
5 1/2"	17	J55	LTC	7064'
2 1/8"	6.5	J55	EUE	

9 5/8" x 670'
 400" C" (circ 120sx)

Before SWD Conversion

8 3/4" x 5315'
 7 7/8" x 7064'

DN/ECR 4382'

KOP 4573'

Horiz 5350'
 MD

630sx

5500'

TVD 5101-5113' Delaware

5335' 5595' 5857' 6054' 6252' 6509' 6740' 7000' FC 7022'

7064'

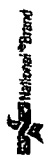
5 1/2" x 7064'

1st: 350 Acid Sol Cut C65

2nd: 1675 HLC + 100" C" C8'

KBC Collins /

10 SHEETS EYE-EASE 5 SQUARE
 100 SHEETS EYE-EASE 5 SQUARE
 200 SHEETS EYE-EASE 5 SQUARE
 100 RECYCLED WHITE 5 SQUARE
 200 RECYCLED WHITE 5 SQUARE
 MADE IN U.S.A.



Rocket Fed. 1 SWD

116' PSL, 564' FEL (Surf)
 2277' PSL, 387' FEL (bhl)
 P-4-265-29e
 Eddy, NM
 30-015-34795

Zero: 17' AGL
 KB: 2981'
 GL: 2964'

Size	wt.	Grade	Conn	Depth
9 5/8"	36	J55	STC	670'
5 1/2"	17	J55	LTC	7064'
2 7/8"	6.5	J55	EUE	
3 1/2"	9.3	J55	SpCL	

30 SHEETS EASE-A-SQUARE
 20 SHEETS EASE-A-SQUARE
 20 SHEETS EASE-A-SQUARE
 100 RECYCLED WHITE 5 SQUARE
 200 RECYCLED WHITE 5 SQUARE
 Made in U.S.A.



12 1/4"

9 5/8" @ 670'
 400' C" (Circ 120gx)

2 7/8" or 3 1/2" Inj Tbg

After SWD Conversion

8 3/4" to 5315'
 7 7/8" to 7064'

Inj. Pkr ± 3175'

Delaware Sand
 3225' - 4775'

DN/ECP 4382'

KOP 4573'

C180 x 35' cm
 4825'

5335'

5595'

5857'

6054'

6252'

6509'

6740'

7000'

FC 7022'

Horiz 5350'
 MD

630.5x

TVD 5101-5113' Delaware

5500'

5 1/2" @ 7064'

1st: 350 Acid Sol Cont C65

2nd: 1675 HLC + 100' C" CB

KBC Collins /

Conditions of Approval

COG Operating LLC
Rocket Federal - 1
API 3001534795, T26S-R29E, Sec 04
November 27, 2012

1. A new "Well Location and Acreage Dedication Plat" (NMOCD Form C-102) is required with the notice of intent package when opening another pay zone.
2. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
3. Subject to like approval by the New Mexico Oil Conservation Division.
4. **Notify BLM 575-200-7902 before plug back procedures. The procedures are to be witnessed. If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.**
5. Surface disturbance beyond the existing pad must have prior approval.
6. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
7. Functional H₂S monitoring equipment shall be on location.
8. A minimum of 2000 (2M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
9. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
10. The BLM PET witness is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test (WOC time of 4 hours recommended) as requested by BLM PET witness.

11. Class C < 7500ft) cement plugs(s) will be necessary. The minimum pumped volume of 25 sacks of cement slurry is to exceed a 100ft cement plug across the drilled wellbore. Add 10% to the 100ft slurry volume for each 1000ft of plug depth when calculations indicate the need. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft³/sx, 6.3gal/sx.
12. **Step 1 – the CIBP is to be set at 5075’.**
13. **A minimum of 25sx C cement is to be placed on the CIBP of Step 1.**
14. **After setting the plug and before perforating, perform a BLM PET witnessed (charted) casing integrity test of 1200 psig. Pressure leakoff may require correction for approval. Include a copy of the chart in the subsequent sundry for this workover.**
15. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
16. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
17. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

An inactive/shut-in well bore is a non-producing completion that is capable of "beneficial use" i.e. production in **paying quantities** or of service use.

18. Return the well to "beneficial use" on or before 04/20/2013.
19. Should "beneficial use" not be achieved submit for BLM approval a plan for plug and abandonment.

PRS 101712

Operations for a Well with an Inj Packer

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness: email Paul R. Swartz pswartz@blm.gov or phone 575-200-7902. Note the contact, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
- 8) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization. Approved injection pressure compliance is required. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- 9) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 10) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 11) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of the annular fluid level at any time.
- 12) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.

- 13) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 14) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 15) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" <pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 16) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.

Access information for use of Form 3160-5 "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.