Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCD Artesia
MAY 21 2013
NMOCD ARTESIA

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.
NMLC029342A

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 ☐ Other

8. Well Name and No.
WOOLLEY FEDERAL 1

2. Name of Operator
COG OPERATING LLC
Contact: KANICIA CASTILLO
E-Mail: kcastillo@conchoresources.com

9. API Well No.
30-015-04369

3a. Address
ONE CONCHO CENTER 600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-685-4332

10. Field and Pool, or Exploratory
LOCO HILLS ABO

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 21 T17S R30E Mer NMP 660FSL 660FWL

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

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 recomplete 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 request to recomplete to the Yeso.

SUBJECT TO LIKE APPROVAL BY STATE

Woolley Federal # 01 Recompletion Procedure

Objective:
Set a CIBP over the ABO interval. Complete the Blinberry and Paddock formations in four stages.
Install 2-7/8? Tbg, rods, rod pump, pumping unit and turn well to production.
Procedure:
1. MIRU , unseat packer and POH w/ tbg and packer (
2. RIH w/ 5-1/2? CIBP and set at 6,600 ft. and spot 100 ft. of class C cmt. on top.
3. Pressure test csg to 3,500 psig. for 15 mins. w/ kill truck.
4. If the csg tests good , then frac down the csg. If not, then frac via 3-1/2? N80 9.3 work

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Accepted for record
NMOCD
5/24/13

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

Electronic Submission #207086 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by JOHNNY DICKERSON on 05/10/2013 ()

Name *(Printed/Typed)* KANICIA CASTILLO — Title PREPARER

Signature (Electronic Submission) — Date 05/10/2013

APPROVED
MAY 17 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 #207086 that would not fit on the form

32. Additional remarks, continued

string
5. RU Wireline and perforate the first Blinberry stage as listed below (1 spf and 0.41 entry hole)
Perf # Depth SPF
1 6150 2/SPF
2 6142 2/SPF
3 6134 2/SPF
4 6126 2/SPF
5 6118 2/SPF
6 6110 2/SPF
7 6102 2/SPF
8 6094 2/SPF
9 6086 2/SPF
10 6078 2/SPF
11 6070 2/SPF
12 6062 2/SPF
13 6054 2/SPF
14 6046 2/SPF
15 6038 2/SPF
16 6030 2/SPF
17 6022 2/SPF
18 6014 2/SPF
19 6006 2/SPF
20 5998 2/SPF
21 5990 2/SPF
22 5982 2/SPF
23 5974 2/SPF
24 5966 2/SPF
25 5958 2/SPF
26 5950 2/SPF
6. RU Acid and acidze perfs. 5950 ? 6150 ft. with 2,500 glas of 15% HCL and 30 bio-balls
7. Frac the 1 stage of the Blinberry 5950 ? 6150 ft. with 115,000 gals of 15# cross link gel & 150,000 lbs of of 16/30 white sand and 30,000 lbs of 16/30 resin coated sand.
8. Flowback
9. RU Wireline and set a 5-1/2? CIBP @ 5900 ft and pressure test to3,500 psig.
10. Perforate the second Blinberry stage as listed below
Perf # Depth SPF
1 5670 2/SPF
2 5662 2/SPF
3 5654 2/SPF
4 5646 2/SPF
5 5638 2/SPF
6 5630 2/SPF
7 5622 2/SPF
8 5614 2/SPF
9 5606 2/SPF
10 5598 2/SPF
11 5430 2/SPF
12 5422 2/SPF
13 5414 2/SPF
14 5406 2/SPF
15 5398 2/SPF
16 5390 2/SPF
17 5382 2/SPF
18 5374 2/SPF
19 5366 2/SPF
20 5358 2/SPF
21 5350 2/SPF
22 5342 2/SPF
23 5334 2/SPF
24 5326 2/SPF
25 5318 2/SPF
26 5310 2/SPF
27 5302 2/SPF
11. RU Acid and acidze perfs. 5302 ? 5670 ft. with 2,500 glas of 15% HCL and 30 bio-balls
12. Frac the 2 stage of the Blinberry 5302 ? 5670 ft. with 115, 000 gals of 15# cross link gel & 150,000 lbs of of 16/30 white sand and 30,000 lbs of 16/30 resin coated sand.
13. Flowback
14. RU Wireline and set a 5-1/2? CIBP @ 5,250 ft and pressure test to 3,500 psig.

32. Additional remarks, continued

Full Procedure attached.

Woolley Federal # 01 Recompletion Procedure

Objective:

Set a CIBP over the ABBO interval. Complete the Blinberry and Paddock formations in four stages. Install 2-7/8" Tbg, rods, rod pump, pumping unit and turn well to production.

Procedure:

1. MIRU , unseat packer and POH w/ tbg and packer (
2. RIH w/ 5-1/2" CIBP and set at **6,600 ft.** and spot 100 ft. of class C cmt. on top.
3. Pressure test csg to 3,500 psig. for 15 mins. w/ kill truck.
4. If the csg tests good , then frac down the csg. If not, then frac via 3-1/2" N80 9.3 work string
5. RU Wireline and perforate the first Blinberry stage as listed below (1 spf and 0.41 entry hole)

Perf #	Depth	SPF
1	6150	2/SPF
2	6142	2/SPF
3	6134	2/SPF
4	6126	2/SPF
5	6118	2/SPF
6	6110	2/SPF
7	6102	2/SPF
8	6094	2/SPF
9	6086	2/SPF
10	6078	2/SPF
11	6070	2/SPF
12	6062	2/SPF
13	6054	2/SPF
14	6046	2/SPF
15	6038	2/SPF
16	6030	2/SPF
17	6022	2/SPF
18	6014	2/SPF
19	6006	2/SPF
20	5998	2/SPF
21	5990	2/SPF
22	5982	2/SPF
23	5974	2/SPF
24	5966	2/SPF
25	5958	2/SPF
26	5950	2/SPF

6. RU Acid and acidze perfs. 5950 – 6150 ft. with 2,500 glas of 15% HCL and 30 bio-balls
7. Frac the 1 stage of the Blinberry 5950 – 6150 ft. with 115,000 gals of 15# cross link gel & 150,000 lbs of of 16/30 white sand and 30,000 lbs of 16/30 resin coated sand.
8. Flowback
9. RU Wireline and set a 5-1/2" CIBP @ 5900 ft and pressure test to3,500 psig.
10. Perforate the second Blinberry stage as listed below

Perf #	Depth	SPF
1	5670	2/SPF

2	5662	2/SPF
3	5654	2/SPF
4	5646	2/SPF
5	5638	2/SPF
6	5630	2/SPF
7	5622	2/SPF
8	5614	2/SPF
9	5606	2/SPF
10	5598	2/SPF
11	5430	2/SPF
12	5422	2/SPF
13	5414	2/SPF
14	5406	2/SPF
15	5398	2/SPF
16	5390	2/SPF
17	5382	2/SPF
18	5374	2/SPF
19	5366	2/SPF
20	5358	2/SPF
21	5350	2/SPF
22	5342	2/SPF
23	5334	2/SPF
24	5326	2/SPF
25	5318	2/SPF
26	5310	2/SPF
27	5302	2/SPF

11. RU Acid and acidze perfs. 5302 – 5670 ft. with 2,500 glas of 15% HCL and 30 bio-balls
12. Frac the 2 stage of the Blinberry 5302 – 5670 ft. with 115, 000 gals of 15# cross link gel & 150,000 lbs of of 16/30 white sand and 30,000 lbs of 16/30 resin coated sand.
13. Flowback
14. RU Wireline and set a 5-1/2" CIBP @ 5,250 ft and pressure test to 3,500 psig.
15. Perforate the Paddock stage # 1 as listed below:

Perf #	Depth	SPF
1	5070	2/SPF
2	5060	2/SPF
3	5050	2/SPF
4	5040	2/SPF
5	5030	2/SPF
6	5020	2/SPF
7	5010	2/SPF
8	5000	2/SPF
9	4990	2/SPF
10	4980	2/SPF
11	4970	2/SPF
12	4960	2/SPF
13	4950	2/SPF
14	4940	2/SPF
15	4930	2/SPF

16	4920	2/SPF
17	4910	2/SPF
18	4900	2/SPF
19	4890	2/SPF

16. RU Acid and acidze perfs. 4890 – 5070 ft. with 2,500 gals of 15% HCL and 30 bio-balls
17. Frac the 1 stage of the Paddock 4890 – 5070 ft. with 114, 000 gals of 15# cross link gel & 115,000 lbs of of 16/30 white sand and 15,000 lbs of 16/30 resin coated sand.
18. Flowback
19. RU Wireline and set a 5-1/2" CIBP @ 4,850 ft and pressure test to xxx psig.
20. Perforate the Paddock stage 2 as listed below:

Perf #	Depth	SPF
1	4800	2/SPF
2	4790	2/SPF
3	4780	2/SPF
4	4770	2/SPF
5	4760	2/SPF
6	4750	2/SPF
7	4740	2/SPF
8	4730	2/SPF
9	4720	2/SPF
10	4710	2/SPF
11	4700	2/SPF
12	4690	2/SPF
13	4680	2/SPF
14	4670	2/SPF
15	4660	2/SPF
16	4650	2/SPF
17	4640	2/SPF
18	4630	2/SPF
19	4620	2/SPF
20	4610	2/SPF
21	4600	2/SPF

21. RU Acid and acidze perfs. 4600– 4800 ft. with 2,500 gals of 15% HCL and 30 bio-balls
22. Frac the 2 stage of the Paddock 4600 – 4800 ft. with 114, 000 gals of 15# cross link gel & 115,000 lbs of of 16/30 white sand and 15,000 lbs of 16/30 resin coated sand.
23. Flowback
24. TIH w/ 2-7/8" tubing workstring to drill out CIBP @ 4,850 ft., 5,250 ft. and 5,900 ft., and clean out to PBTD @ 6,500 ft.
25. POOH and LD 2-7/8" tubing workstring, PU and RIH w/ 2-7/8" Production tubing and tubing BHA
26. Set SN @ 5,150 ft. and the TAC @ 4,200 ft. with 5 Jts. of 2-7/8" tubing MA w/ BP.
27. PU and RIH w/ 250-175-RHBC -24-4 insert frac pump, 12 jts of 1-3/8" K-bars, 32 jts of ¾" N97 rods, 48 jts. of 7/8" N97 rods, and 74 1.25" FG rods.
28. Space out, load and test for pump action, and hang well on.
29. Inspect PU alignment and level carrier bar.
30. Turn Well to production.

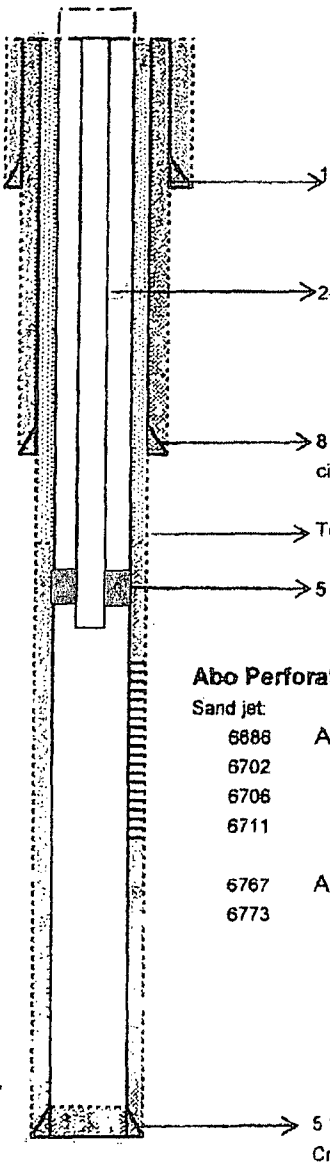
COG Operating LLC

Lease & Well # Woolley Federal #1

API # 30-015-04369

SPUD - 6/4/60

Elevation - 3637'



13 3/8" H-40 ST & C @ 462', 280sx., circ to surface.

2-3/8" 4.6 # / ft IPC tbg @ 6,607 ft.

8 5/8" 32# 8rd J-55 STC @ 4003', 2289 sx 50/50/2 6# slt,100 sx C, 4% ge circ to surface.

Top of cement @ 5,800' FS, survey.

5 1/2 Trump Pkr w/on-off tool @ 6,607 ft.

Abo Perforations (ft):

Sand jet:

6686	Acidized w/5,000 gal 15% NEFE
6702	
6706	
6711	
6767	Acidized w/ 200 gal 155 NEFE
6773	

PBTD - 6770'

5 1/2" 17# J-55 LT&C csg @ 6945'.
Cmt w/550 35/65/6 C 3/3 slt, 1/4# CF, 75 50/50/2 C 1% S25, 5% slt. Survey TOC @ 5800'.

Wooley Federal 1
30-015-04369
COG Operating LLC
May 17, 2013
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by June 30, 2013.

1. SITE FACILITY MUST MEET REGULATIONS.

2. **The operator shall place CIBP at 6600'. Place a 166'of neat class C cement on top to seal off the Abo Formation. Tag at approximately 6434'.**

3. **Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing per Onshore Oil and Gas Order 2.III.B.1.h.** Make arrangements 24 hours before the test for BLM to witness. E-mail Paul R. Swartz pswartz@blm.gov or phone 575-200-7902, if there is no response, 575-361-2822. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.

4. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.

5. Surface disturbance beyond the originally approved pad must have prior approval.

6. Closed loop system required.

7. All waste (i.e. drilling fluids, 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.

8. Operator to have H2S monitoring equipment on location.

9. A minimum of a 2000 (2M) BOP to 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.

10. **Subsequent sundry required detailing work done and completion report for the new formation. Operator to include new well plat and well bore schematic of current well condition when work is complete.**

JAM 051713