Form 3160-5
(August 2007)

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.
NMNM027994D

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.
FEDERAL LL 1

2. Name of Operator
COG OPERATING LLC
Contact: BRIAN MAIORINO
E-Mail: bmaiorino@concho.com

9. API Well No.
30-015-20855

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

3b. Phone No. (include area code)
Ph: 432-221-0467

10. Field and Pool, or Exploratory
YARROW;BONE SPRING,SOUTH

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 13 T23S R26E SESW 660FSL 1980FWL

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 respectfully request to abandon the Wolfcamp and recomplete the Federal LL #1 in the Bone Spring.

Test anchors if necessary
MIRU
Kill well if necessary.
Install back pressure valve.
Remove wellhead & install BOP.
Attempt to release from on/off tool. (If cannot release, punch hole in tubing and if necessary, cut off)
Pull tubing and visually inspect. If necessary, utilize workstring
Make a bit a scraper run

RECEIVED
SEP 04 2013
NMOCD ARTESIA

Accepted for record
NMOCD
9/4/13

SUBJECT TO LIKE APPROVAL BY STATE

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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

Electronic Submission #217398 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 08/19/2013 ()

Name *(Printed/Typed)* BRIAN MAIORINO — Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) — Date 08/19/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved By _____ Title _____ Date SEP 9 2013

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. (BW 9/12/13) Office

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD 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 #217398 that would not fit on the form

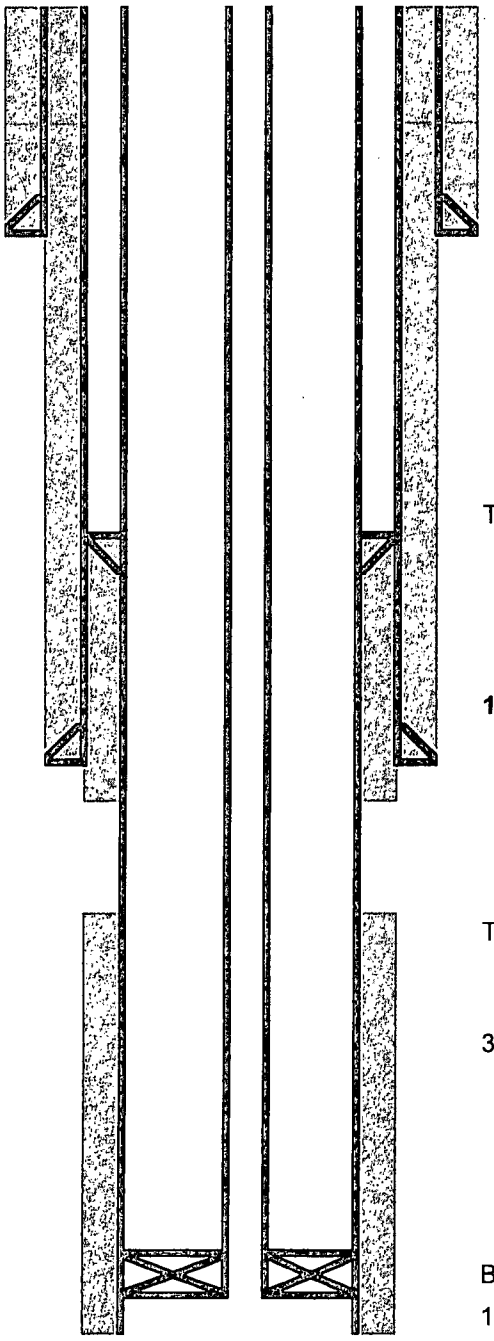
32. Additional remarks, continued

Set a CIBP @ 9900? See COA
TIH with tubing open ended See COA
Spot Class H cement mixed at 16.4# gal from ~~8700 ? 8900~~ (Wolfcamp top @ 8722? but bottom Bone Spring perf @ 8564? or deeper)
Circulate well clean & TOH
Pressure test casing to 5000 psi
Run CBL to determine top of cement
Perforate 3rd Bone Spring @ 8552? (40 holes) w/6 spf, 60o phasing utilizing Schlumberger openhole log dated 7/22/73.
TIH w/tubing & packer. Spot acid across perfs. Set packer at 7250?
Acidize zone with 2000 gallons 15% HCl at 3 ? 5 BPM while dropping balls
Shut-in 1 hour & flow back
Pull tubing and packer
Set frac valve & prepare for frac.
Frac 3rd Bone Spring.
Set flow through composit plug at 7100?
Perforate 2nd Bone Spring @ 6870? (40 holes) w/6 spf, 60o phasing utilizing Schlumberger openhole log dated 7/22/73.
Frac second bone spring.
Set flow through composit plug at 6600?
Perforate 1st Bone Spring @ 6303? (40 holes) w/6 spf, 60o phasing utilizing Schlumberger openhole log dated 7/22/73.
Frac first Bone Spring.
Shut-in well for 24 hours
Flow well back until dead.
TIH with tubing and drill out plugs. TOH
TIH with tubing & artificial lift equipment.
Place well on test

*Closed-loop system will be used durring operatings.

Author:	Stroup		
Well Name	**Federal LL**	Well No.	**#1**
Field	Wolfcamp	API #:	30-015-20855
County	Eddy	Prop #:	
State	New Mexico	Zone:	Wolfcamp
Date	8/11/2013		
GL	3241'		
KB	3258'		

Description	O.D.	Grade
Surface Csg	13 3/8	???
Inter Csg	9 5/8	S95
Inter Csg		
Liner	7	S95



Current Wellbore

17 1/2" hole

13 3/8" (??? - 48#) @ 375' w/400 sx

TOC @ surface

2-3/8" L80 Tbg - ?? jts

Type C Liner Hanger @ 5392' w/250 sx

12 1/4" hole

9-5/8" (S95 - 40#) @ 5600' w/2850 sx

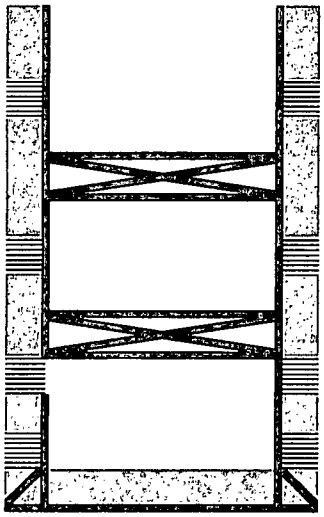
TOC @ surface

TOC @ ???

315 jts 2 3/8" Buttress Tubing

Baker Loc-set @ 9868'

1.81" Profile @ 9859'



9954 - 61, 10004 - 10, 10018 -23 Wolfcamp

CIBP @ 10280' w/35' cement

10295 - 10306 Canyon

CIBP @ 11000' w/35' cement

11090 - 11240 Atoka

11463' - 11728' Morrow

8 3/4" hole

TD @ 12090'

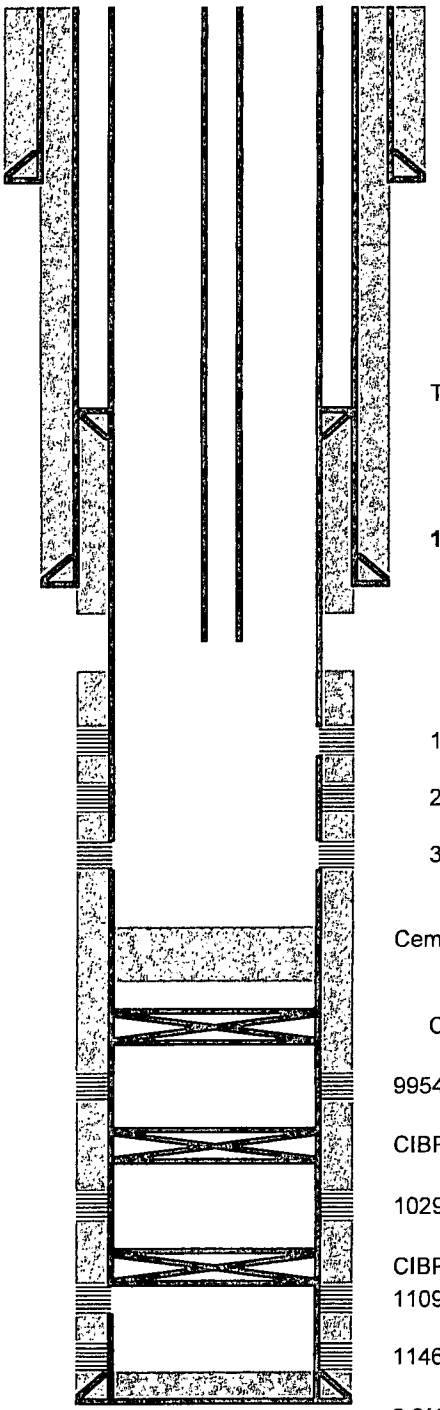
7" (S95 -26#) @ 12088' w/1350 sx

TOC @ ???

Weight	Depth	Cmt Sx	TOC
48	375	400	Surface
40	5,600	2850	Surface
26	12,088	1600	???

Author:	Stroup		
Well Name	**Federal LL**	Well No.	**#1**
Field	Wolfcamp	API #:	30-015-20855
County	Eddy	Prop #:	
State	New Mexico	Zone:	Wolfcamp
Date	8/11/2013		
GL	3241'		
KB	3258'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13 3/8	???	48	375	400	Surface
Inter Csg	9 5/8	S95	40	5,600	2850	Surface
Inter Csg						
Liner	7	S95	26	12,088	1600	???



Proposed Wellbore

17 1/2" hole
13 3/8" (??? - 48#) @ 375' w/400 sx
TOC @ surface

2-3/8" L80 Tbg - ?? jts

Type C Liner Hanger @ 5392' w/250 sx

12 1/4" hole
9-5/8" (S95 - 40#) @ 5600' w/2850 sx
TOC @ surface

1st BS @ 6303'

2nd BS @ 6870

3rd BS @ 8552

Cement plug 8700 - 8900

CIBP @ 9900

9954 - 61, 10004 - 10, 10018 -23 Wolfcamp

CIBP @ 10280' w/35' cement

10295 - 10306 Canyon

CIBP @ 11000' w/35' cement
11090 - 11240 Atoka

11463' - 11728' Morrow

8 3/4" hole
7" (S95 -26#) @ 12088' w/1350 sx
TOC @ 222

TD @ 12090'

District I
1625 N. French Dr , Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St , Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
000 'o os o , ec, 87410
50 -6 78 (505) 334-6170

0 ' , c, 87505
o . 50 76 60 (505) 76-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-20855	87780	Yarrow; Bone S rin , South Gas

[4] Property Code	[5] Property Name	[6] Well Number
007674	Federal LL	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
229137	COG O eratin LLC	3240' GL

[10] Surface Location

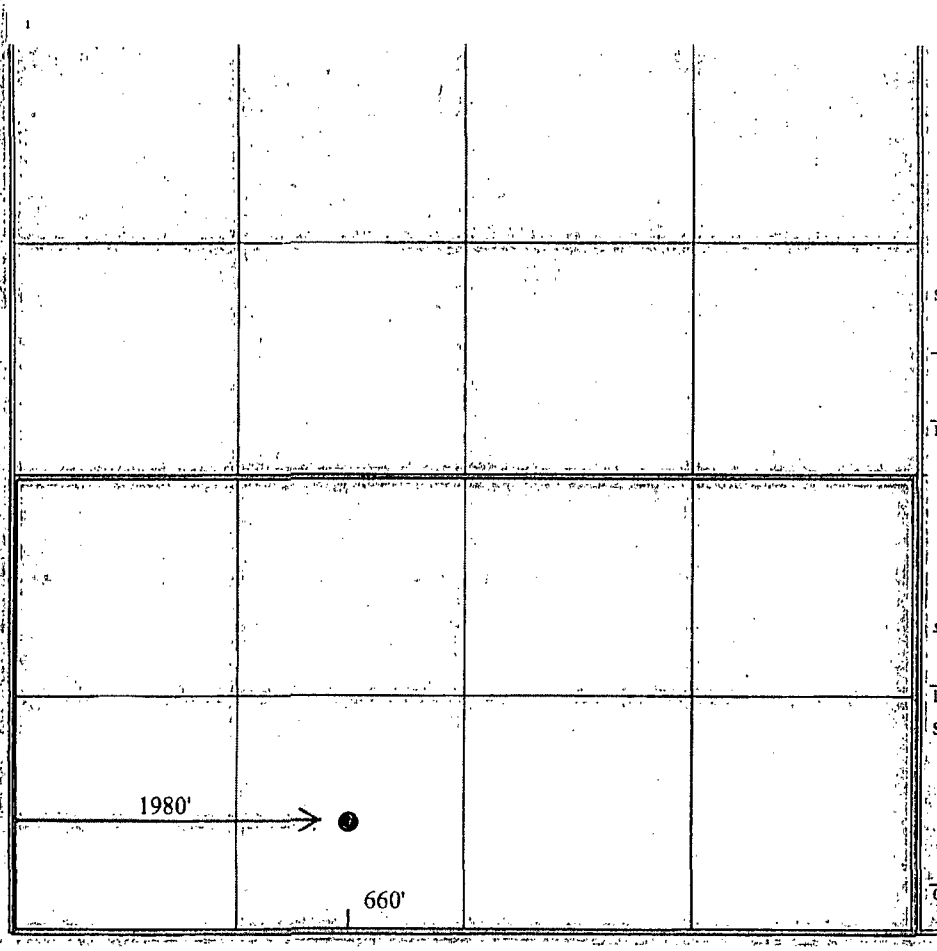
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	23S	26E		660	South	1980	West	Edd

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	ounty

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

No al owable will be ass' _ e o 's completion until all interests have been consolidated or a non tandard unit ha been appr d by th di i ion



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Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

Federal LL 1
30-015-20855
COG Operating LLC
September 03, 2013
Conditions of Approval

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

Work to be completed by December 03, 2013.

1. **Operator shall tag existing CIBP at approximately 10,245'.**

2. **Operator shall set CIBP at 9,900 and place 25 sx of Class H cement on top. Tag required.**

3. **Operator shall place a Class H cement plug from 8,800'-8,600' to seal the top of the Wolfcamp formation.**

4. **Submit a copy of CBL to BLM. If squeeze is needed, submit plan to BLM CFO Engineer for approval.**

5. **Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**

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

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

8. Closed loop system required.

9. 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.

10. Operator to have H2S monitoring equipment on location.

11. A minimum of a 3000 (3M) 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 (3M 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.

12. 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.

13. See attached for general requirements.

JAM 090313

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

General Requirements for Plug Backs

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822.**

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. **Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. Subsequent Plug back Reporting: Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.