Form 3160-5
(June 2015)

OCD-HOBBS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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 page 2

5. Lease Serial No.
NMNM59045

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.
SL DEEP FEDERAL COM 1

2. Name of Operator
COG OPERATING, LLC
Contact: ABIGAIL MONTGOMERY
E-Mail: Abbym@bcmandassociates.com

9. API Well No.
30-025-35088

3a. Address
600 W. ILLINOIS
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-580-7161

10. Field and Pool or Exploratory Area
LUSK MORROW

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 30 T19S R32E 1980FSL 1650FEL
32.629650 N Lat, 103.802276 W Lon

11. County or Parish, State
LEA CO COUNTY, NM

12. CHECK THE 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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Aba
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal

INT TO PA ☒
P&A NR ☐
P&A R ☐

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

1. Set 5 1/2" CIBP @ 12100'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 12100-12000'.
2. Spot 25 sx cmt @ 10400-10300'. (Wolfcamp)
3. Spot 25 sx cmt @ 7180-7080'. (Bone Springs)
4. Spot 25 sx cmt @ 4575-4455'. WOC & TAG (Shoe & Delaware)
5. Spot 25 sx cmt @ 2600-2500'. WOC & TAG (Yates)
6. Spot 25 sx cmt @ 900-795'. WOC & TAG (Shoe & Rustler)
7. Perf & Sqz 50 sx cmt @ 100'-Surface.
8. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

HOBBS OCD
DEC 04 2017
RECEIVED

APPROVED
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

SUBJECT TO LIKE
APPROVAL BY STATE

WITNESS

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #383844 verified by the BLM Well Information System
For COG OPERATING, LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/16/2017 ()

Name *(Printed/Typed)* ABIGAIL MONTGOMERY — Title AGENT

Signature (Electronic Submission) — Date 08/04/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Paul R. Swartz 11/15/17 — Title TPET — 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

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.

(Instructions on page 2)

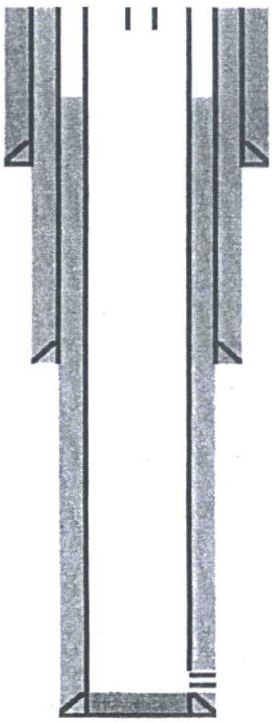
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

FOR RECORD ONLY
MW/OCD 12/5/2017

Author:	MRM (7/2017)		
Well Name	**SL Deep Fed Com**	Well No.	**#1**
Field	Lusk Morrow	API #:	30-025-35088
County	Lea	Prop #:	26214
State	New Mexico	Zone:	Morrow
Spud Date	4/3/2001		1980 FSL & 1650 FEL
GL	3,542'		Sec 30 T19S R32E
KB			

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13.375"	H-40	48	846'	650	surf
Inter Csg	8.625"	J-55	32	4,506'	2,975	surf
Prod Csg	5.5"	M-95 & P-110	17	12,465'	1,750	600'
Liner						

Originally drilled and COG took over oper



TD @ 12,474'
PBTD @ 12,450'

17-1/2" hole
13-3/8" (48#) @ 846' with 650 sks, circ 160 sks
TOC @ surface

12-1/4" hole
8-5/8" (32#) @ 4,506' with 2,975 sks, circ 62 sks
Perf Casing @ 2,750' 1st stage - 2,075 sks, NO CIRC, Bridged off (TOC @ 3,000')
TOC @ surface 2nd stage - 900 sks, circ 62 sks

12,149'-12,187' (Morrow) 98 shots - 04/30/2001 acidized with 1000 gal

7-7/8" hole
5-1/2" (17#) @ 12,465' with 1,750 sks
DV Tool @ 10,378' 1st stage - 550 sks, circ 164 sks
TOC @ 600' 2nd stage - 1200 sks

Formation Tops

Rustler	820'
Yates	2,552'
Seven Rivers	2,946'
Delaware	4,564'
Bone Springs Lime	7,130'
Wolfcamp Lime	10,360'
Strawn	11,032'
Atoka	11,442'
Moorw	11,950'

32.6296501
-103.8022766

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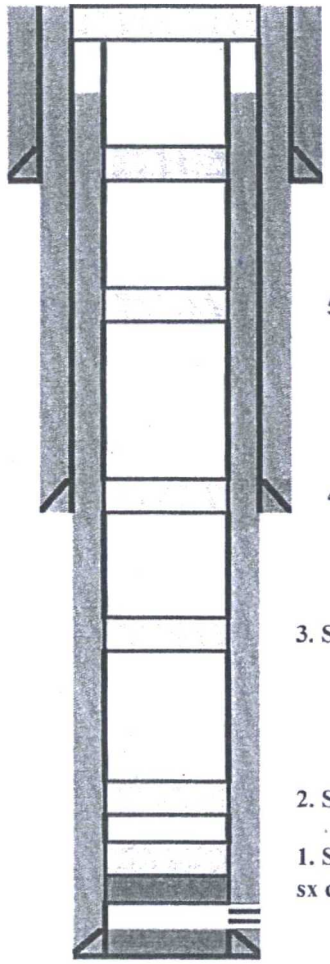

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7. Perf & Sqz 50 sx cmt @ 100'-Surface.

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TOC @ surface

6. Spot 25 sx cmt @ 900-795'. WOC & TAG (Shoe & Rustler)

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Conditions of Approval

COG Operating LLC
SL Deep Com - 01, API 3002535088
T19S-R32E, Sec 30, 1980FSL & 1650FEL
November 15, 2017

1. **Begin wellbore operations within 90 days of these conditions of approval for the processed Electronic Submission #383844 notice of intent or request an extension.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location during this workover operation**. .
3. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15.
4. Subject to like approval by the New Mexico Oil Conservation Division.
5. Notify 575-361-2822 Eddy Co as work begins. If there is no response leave a voice mail with the API#, workover purpose, and a call back phone number.
6. Surface disturbance beyond the existing pad must have prior approval.
7. 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.
8. Functional H_2S monitoring equipment shall be on location.
9. Blow Out Prevention Equipment 3000 (3M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
10. 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 any other crew-intensive operations.
11. The BLM PET is to run tbg tally and agree to cement volumes and placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.
12. **Cementing procedure is subject to the next three numbered paragraphs.**
13. Mix cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft to the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 ½" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.
14. Class H > 7500ft & C < 7500ft) neat cement plugs(s) will be necessary. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Isolation plugs of Class "C" neat cement to be mixed 14.8#/gal, 1.32 ft^3/sx, 6.3gal/sx water and Class "H" neat cement to be mixed 16.4#/gal, 1.06ft^3/sx, 4.3gal/sx water.

15. Minimum requirement for mud placed between plugs is 25 sacks of saltwater gel per 100 barrels in 9 lb/gal brine.
16. **Set a CIBP within 100' of the top perf 12149' AND pressure test the casing to 500psig.**
17. **Set a 202ft (±25sx) balanced "H" cmt plug on the CIBP set within 100' of the top perf 12149' to cover the Morrow formation top at 11950' with 50' cmt. WOC, and tag the plug with tbg at 11,900' or higher.**
18. **Set 202' (±25sx) balanced "H" plug across the DV Tool at 10387 and Wolfcamp formation top from 10,450' or below. WOC, and tag the plug with tbg at 10,260 or above.**
19. **Set 254' (±25sx) balanced "C" cmt plug across the Bone Spring formation top from 7200' or below. WOC, and tag the plug with tbg at 6960 or above.**
20. **Set 254' (±25sx) balanced "C" cmt plug from 4650' or below to cover the Delaware Mountain Group and the 8 5/8" shoe at 4506'. WOC, and tag the plug with tbg at 4390 or above.**
21. **Set 254' (±25sx) balanced "C" cmt plug from 2650' or below to cover the Yates formation. WOC, and tag the plug with tbg at 2410' or above.**
22. **Perf and sqz at 60' or below. Establish circulation through the 5 1/2" x 8 5/8" annulus. Fill with (±50sx) "C" cmt and verify the 8 5/8" x 13 3/8" annulus and 8 5/8'' csg cemented to surface.**
23. File **subsequent sundry** Form 3160-**5** within 30 days of workover procedures. Include (dated daily) descriptions of the well work, i.e. procedure descriptions and setting depths of each plug in the subsequent sundry.

Spot plug across 13 3/8" shoe at 900'
MW loc'd 12/5/17

Lesser Prairie Chicken Habitat Area Dry Hole Markers

Stamp or engrave (3/8" letters) information for the plugged well on 8"x 8"aluminum plate of 1/8", 12 gauge, or .080 sign material similar to this example:

Ajax Operating Company
Tailspin – 22
1980FNL & 660FWL - Sec 16 - T22S-R31E
Lease LC029567 API 3001534567
Plugged July 17, 2017

1. Center a 3 to 4 foot pipe at a right angles on a 8"x8"x 1/8" or 3/16" steel plate and weld the pipe to the plate.
2. Cement the pipe vertically inside the abandoned surface casing. Leave the steel plate about 2" above and horizontal to ground level.
3. Fix the aluminum plate with the well information to the steel plate with ¼ inch bolts and locking nuts or self tapping fine threaded screws (one in each corner).
4. On the BLM Form 3160-5 subsequent report of abandonment state that a ground level dry hole marker installed as required by BLM and NMOCD Order No. R-12965.

Reclamation Objectives and Procedures

In Reply Refer To: 1310

Reclamation Objective: At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as needed. This will apply to well pads, facilities, and access roads. Barricade all access road(s) at the starting point. If reserve pits have not been adequately reclaimed due to salts or other contaminants, propose a plan for BLM approval to provide restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations should have included adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.

2. For locations and/or access roads not having an approved plan, or an inadequate plan for surface reclamation the operator must submit a proposal describing the procedures for reclamation. The appropriate time for submittal would be when filing the Notice of Intent, or with the Subsequent Sundry Report of Abandonment on Form 3160-5. The final reclamation goal is to be completed within 6 months of wellbore abandonment.

3. With an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or concerns, contact a BLM specialist to assist you. It may be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives.

4. Upon reclamation conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a BLM specialist to inspect the location to verify work was completed as per approved plans.

5. The BLM approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been tentatively reestablished. If the objectives have not been met BLM will be notify the operator of the required corrective actions.

6. It is the responsibility of the operator to monitor these locations and/or access roads until such time the full BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the full BLM objectives have been met, submit a Final Abandonment Notice (FAN) Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.

7. At this time a BLM specialist will again inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability for the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Environmental Protection Specialist
575-234-5909, 575-361-2648 (Cell)

Trishia Bad Bear
Natural Resource Specialist
575-393-3612, 575-390-2258 (Cell)

Jesse Bassett
Natural Resource Specialist
575-234-5913, 575-499-5114 (Cell)

Paul Murphy
Natural Resource Specialist
757-234-5975, 575-885-9264 (Cell)

Henryetta Price
Environmental Protection Specialist
575-234-5951, 575-706-2780 (Cell)

Robertson, Jeffery
Natural Resource Specialist
575-234-2230, 575-706-1920 (Cell)

Vance Wolf
Natural Resource Specialist
575-234-5979

Brooke Wilson
Natural Resource Specialist
575-234-6237

Arthur Arias
Environmental Protection Specialist
575-234-6230, 575-499-3378 (Cell)

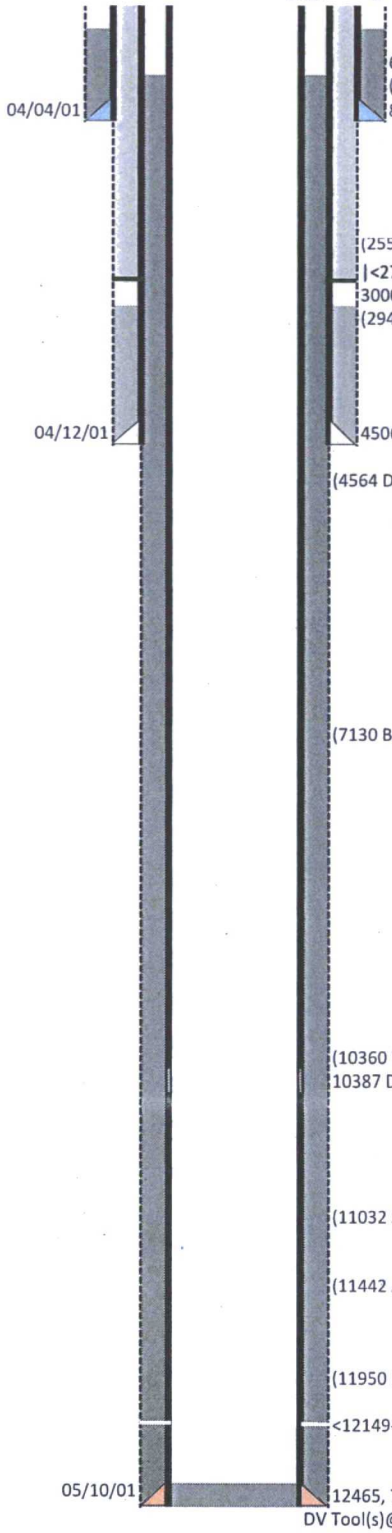
Shelly Tucker
Environmental Protection Specialist
575-234-5905, 575-361-0084 (Cell)

Operator: COG Operating LLC
Surface Lease: NM59045
Case No: NM111030
BHL: NM59045
Communitization Agrmnt
Subsurface Concerns for Casing Designs: C R, 4csgs KFC

Well Status: GSI
Spud date: 4/3/2001
Plug'd Date:
Reentry Date:

KB: 3542
GL: 3542
Corr: 0

Well: SL DEEP FEDERAL COM-1
API: 3002535088
@ Srfce: T19S-R32E,30.1980s1650e
@ M TD: T19S-R32E,30.1980s1650e
Estate: F\F\F
CWDW, R of W:
OCD Admn Order, date:
Frmtn, Depths, psig: Morrow



600 TOC temp
(820 Rustler)
04/04/01 846, 17.5"hole, 13.375"48# H40 ST&C csg, Mix 650sx circ 160sx

(2552 Yates)
<2750>Sqz w/900sx circ 62sx
3000' TOC temp, cmt bridged off
(2946 Seven Rivers)

04/12/01 4506, 12.25"hole, 8.625" 32# J55 LT&C csg, Mix 2075sx circ 0sx

(4564 Delaware)

(7130 Bone Spring)

(10360 Wolfcamp)
10387 DV Tool

(11032 Strawn)

(11442 Atoka)

(11950 Morrow)

<12149-87>

05/10/01 12465, 7.875"hole, 5.5" 17# P110 LT&C csg,, Mix 1750, sx
DV Tool(s)@: 10378, STG#-SxCirc: #1-164, #2-0

Diagram last updated: 11/13/2017