

DRG

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS **HOBBS OCD**
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.
NMLC061936
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

MAY 02 2013

RECEIVED

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. DOS XX 27 FEDERAL COM 1H
2. Name of Operator COG PRODUCTION LLC		9. API Well No. 30-025-40090-00-X1
3a. Address 2208 W MAIN STREET ARTESIA, NM 88210		10. Field and Pool, or Exploratory WILDCAT Bone Spring Upper Shale
3b. Phone No. (include area code) Ph: 575-748-6946 Fx: 575-748-6968		11. County or Parish, and State LEA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T24S R32E NENE 440FNL 440FEL		

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 Production LLC respectfully requests approval to re-cement from 7600-4200'. Procedure is attached.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #204016 verified by the BLM Well Information System
 For COG PRODUCTION LLC, sent to the Hobbs
 Committed to AFMSS for processing by JOHNNY DICKERSON on 04/17/2013 (13JLD0267SE)**

Name (Printed/Typed) STORMI DAVIS	Title PREPARER
Signature (Electronic Submission)	Date 04/10/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date **APR 29 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.

Office *KZ*

**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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Recement Procedure (7,600'-4,200')

Dos XX 27 Federal Com No. 1H
440' FNL & 440' FEL, Sec 27, T24S, R32E
Lea County, New Mexico
30-025- 40090

Well Data:

Reference elevation: 3,582' GL 18' KB

Casing: 13-3/8 54.5# J-5 @ 1,129' (circulated 108 sx)
9-5/8" 40# N-8C/ @ 4,736' (circulated 250 sx)
5-1/2" 17# P-11 @ 2,586 Did not circulate cement
CBL TC @ 7,300

PBTD 13,677'

Perforations: 13,579'-9,837' (474 Shot)

Tubing Detail: N/A

Procedure:

1. Test anchors
2. Check wellhead pressure. Use produced water for kill fluid.
3. MIRU PU. ND wellhead.
4. NU 5M double ram hydraulic BOP.

Prepare to lubricate in CBP on wireline

5. Pump 200 bbl of 2% KCl-water sweep in vertical wellbore @ +BPM
6. MIRU wireline unit and 5M lubricator.
7. Make gauge ring/junk basket run to KOP @ 8,946 .
8. Lubricate in and set CBP @ 7,300'.
9. Dump bail 10' of cement on top of CBP.
10. Pressure test 5-1/2" casing to 3,000 psi.
 - a. Release pressure after successful test.

Prepare to perforate

11. Lubricate in and perforate 4 shots @ 7,200'
 - a. 3-3 8" BH, RDX 24 gm charges
12. POH, lay down spent gun, inspect, and report shots fired.

Prepare to establish circulation rate

13. Pump 300 bbl of fresh water and establish a circulation rate. (Monitor and note circulation)
 - a. If unable to establish circulation call Midland office prior to proceeding.
 - b. If circulation is established proceed to step 14.
14. PU composite mechanically set cement retainer.
15. TIH and set cement retainer on 2-7/8" #7.90 PH-6 WS @ 7,150'
 - a. Pump tbg capacity + 10bbls thru retainer prior to setting retainer.
16. Load and pressure test annulus to 500 psi.
17. Establish injection rate and pressure. (Monitor and note circulation throughout entire job)
18. Pump 40 bbl FW spacer
19. Mix and pump 250 sacks
 - 11.8 ppg EconoCem C
 - 0.5% Halad 322
 - 5 lbm/sk Kol-Seal
 - 0.25 lbm/sk D-AIR 5000
20. Mix and pump 250 sacks
 - 14.8 ppg HalCem – C
 - 0.2% HR-601
21. Shut down, wash up pumps and lines
22. Displace cement with 38 bbl fresh water.
23. Sting out of cement retainer, reverse tubing clean.
24. TOH w/ tubing and stinger.
25. Wait on cement for 24 hours.
26. Test casing and chart to 500 psi and hold for 30 minutes.
27. TIH w/ 4-3/4" sealed bearing mill tooth tri cone bit on 2-7/8" #7.90 PH-6 WS to drill out retainer, cement, and CBP while reverse circulating.
28. Drill cement to ~7,210'.
29. Test and chart squeezed perforations to 500 psi. and hold for 30 minutes.
30. If squeeze holds continue drilling while reverse circulating.
 - a. If squeeze DOES NOT hold call Midland office.
31. Continue TIH and drill out CBP @ 7,300' circulate well clean.
32. Continue to drill out frac plugs to PB TD @ 13,629'.
33. TOH with 4-3/4" bit and 2-7/8" #7.90 PH-6 WS.
34. Install artificial lift equipment. (design to come from production)
35. ND 5M double ram hydraulic BOP.
36. Install wellhead.
37. RDMO PU.
38. Turn back to production.

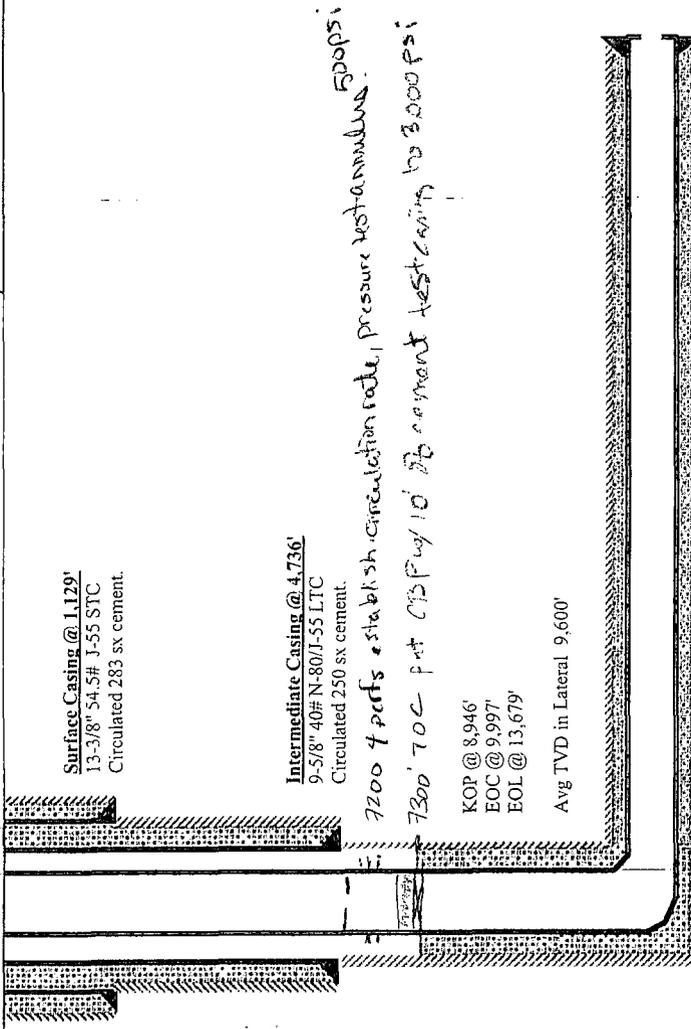


CURRENT WELL SKETCH

API: 30-025-40090
 SFUD: 1/6/13 @ 10:00 hrs
 FRR: 1/29/13 @ 22:30 hrs
 RIG: Silver Oak #7

Dos XX 27 Federal Com No. 1H
 Wildcat
 Lea, NM

SHL: 440' FNL & 440' FEL
 Sec 27, T24S R32E
 BHL: 342' FSL & 390' FEL (est)
 Sec 27, T24S R32E
 GL: 3,582'
 KB: 3,600'
 ZERO: 18.0' AGL



Logged Open Hole
 TD @ 8,916'

- after all done test casing
- Drill cement to 7210' test cement squeeze to 500psi if holds continue if not call BLM

Production Casing @ 13,679'
 5-1/2" 17# P-110 LTC
 Did not circulate cement
 CBL TOC @ 7,300'
 Wet Shoe/Floor Collar @ 13,677'
 Marker joint @ 8,834' (PERC)

HOLE SIZE	MW (ppg)	BHST (F)	EVALUATION
17-1/2"	9.2		No Logs
12-1/4"	10.0		No Logs
7-7/8"	9.1	145 F @ 8,916'	CSENG/SDLT/DLLT/MGRD/DSNT/B SAT (Halliburton 1-16-13)

Updated by **K LaFortune**
 Date: **3/18/2013**

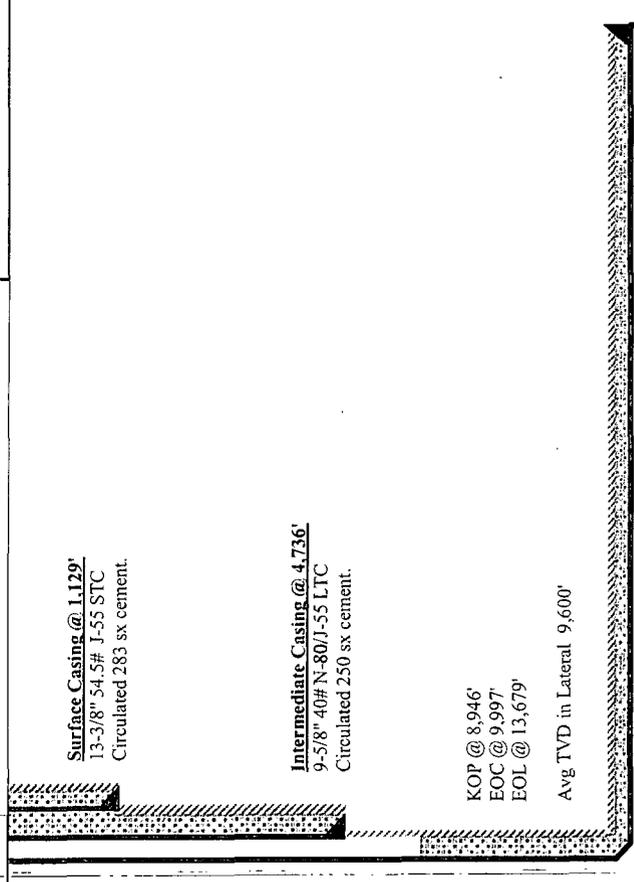


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12-1/4"	10.0		No Logs
17-1/2"	9.2		No Logs

Updated by **K LaFortune**
 Date: **3/18/2013**

DOS XX 27 Federal Com 1H
30-025-40090
COG Operating LLC
April 29, 2013
Conditions of Approval

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

Work to be completed by July 29, 2013.

1. Surface disturbance beyond the originally approved pad must have prior approval.
2. Closed loop system required.
3. 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.
4. Operator to have H2S monitoring equipment on location.
5. 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.
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. **Set CBP at 7300' and dump bail 10' of neat class C cement on top.**
8. **Pressure test casing after squeeze to 500 psi and submit results to BLM. Contact BLM if test fails.**
9. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 8,000' to surface. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779.**
10. Submit a subsequent Sundry Form 3160-5 detailing all of the work and tests done on this well with documentation.

JAM 042913