

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
WOC D Artesia

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.

5. Lease Serial No.
NMNM117555

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
AVALON FEDERAL 1

2. Name of Operator
COG OPERATING LLC
Contact: DANA KING
E-Mail: dking@concho.com

9. API Well No.
30-015-35950-00-S1

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

3b. Phone No. (include area code)
Ph: 432-818-2267

10. Field and Pool or Exploratory Area
LOCO HILLS-QU-GB-SA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 6 T17S R30E SESE 330FSL 990FEL

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" 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 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.

COG Operating LLC respectfully requests to recomplete the Avalon Federal #1.

We are going to set a CIBP at 4,306' (50' above the paddock perms) w/ 40' of CMT on top of the plug to have our PBSD @ 4,266'. We plan to have our top perms from 3,200' - 3,400'. Ideally, we like to have the additional space of rat hole below our bottom perms to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rat hole space, this gives COG the option to re-enter the paddock formation at a later time.

Please see attached procedure, current and proposed WBD.

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 01 2019

GC 4/2/19
Accepted for record - NMOCD

RECEIVED

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

Electronic Submission #457144 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 03/06/2019 (19PP1280SE)

Name (Printed/Typed) DANA KING

Title SUBMITTING CONTACT

Signature (Electronic Submission)

Date 03/06/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By /s/ Jonathon Shepard

Title **Petroleum Engineer**

MAR 29 2019
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.

Carlsbad Field Office

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Avalon Federal #1 Recompletion Plan 30-015-35950

We are going to set a CIBP at 4,306' (50' above the paddock perms) w/ 40' of CMT on top of the plug to have our PBTD @ 4,266'. We plan to have our top perms from 3,200' – 3,400'. Ideally, we like to have the additional space of rat hole below our bottom perms to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rat hole space, this gives COG the option to re-enter the paddock formation at a later time.

Equipment Pull Procedure

- MIRU WSU, NU BOP
- Unset pump and POOH with rod and tbg
- PU scraper and scrape down to 4,350'
- RU Wireline
- Make gauge ring/ junk basket run
- **SECURITAGE**
- Wireline truck dump 40' Class C cement of top of CIBP
- **the cement plug to a depth of 400'**
- Pull up 4' to circulate hole clean with fresh water, and displace w/ 2% KCL and 1% packer corrosion inhibitor.
- Test Casing to 4,300 psi and report back to engineering if the pressure holds.
- RIH w/ perforating guns and perforate San Andres Zone from 3,200'-3,400', w/ 3 spf, 120° phasing, 54 holes
- Dump bail acid in the perf interval
- NU 5K frac valve
- Secure wellbore
- RDMO WSU

Tentative Recompletion Procedure

- RU Elite Well Services Frac Crew
- Acidize w/ 3,000 gals of 15% HCl.
- XL Frac zone w/ 200,000 # of sand.
- Record ISIP and FG, Get 5, 10, 15 min SIP
- RDMO Elite

Return to Production Procedure

- MIRU WSU
- RIH with bit and bailer to drill
- Clean out fill to new **PBTD @ 4200'**
- RIH with production tubing as follows:
 - (92) jts 2-7/8" J55 6.5# tbg
 - (1) 2' marker joint
 - (2) jts 2-7/8" J55 6.5# tbg
 - **TAC @ 3,000'**
 - (13) jts 2-7/8" J55 6.5# tbg
 - **SN @ 3,430'**
 - (1) 20' MSMA
 - **EOT @ 3,450'**
- ND BOP, set TAC, flange up WH

- RIH w/ rod design as follows:
 - (1) 26' x 1-1/2" SMPR
 - (1) 6' x 3/4" rod sub
 - (2) 8' x 3/4" rod subs
 - (130) 3/4" D rods
 - (7) 1-5/8" K bars
 - (1) 25-150 RHBC-20' Pump
- Hang on, load tubing and note pump action and alignment
- Clean location
- PWOP
- RDMO, TOTP

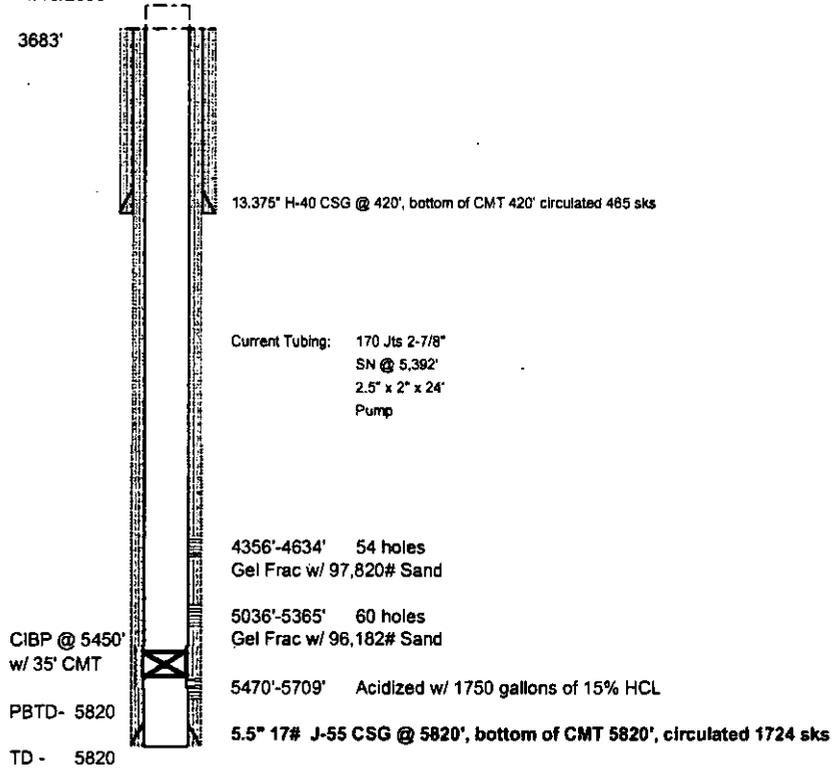
COG Operating, LLC
Current WBD

Lease & Well # AVALON FEDERAL #001
API#30-015-35950

Eddy Co., NM
P-06-17S-30E 330 FSL 990 FEL

Spud - 1/16/2008

Elevation - 3683'



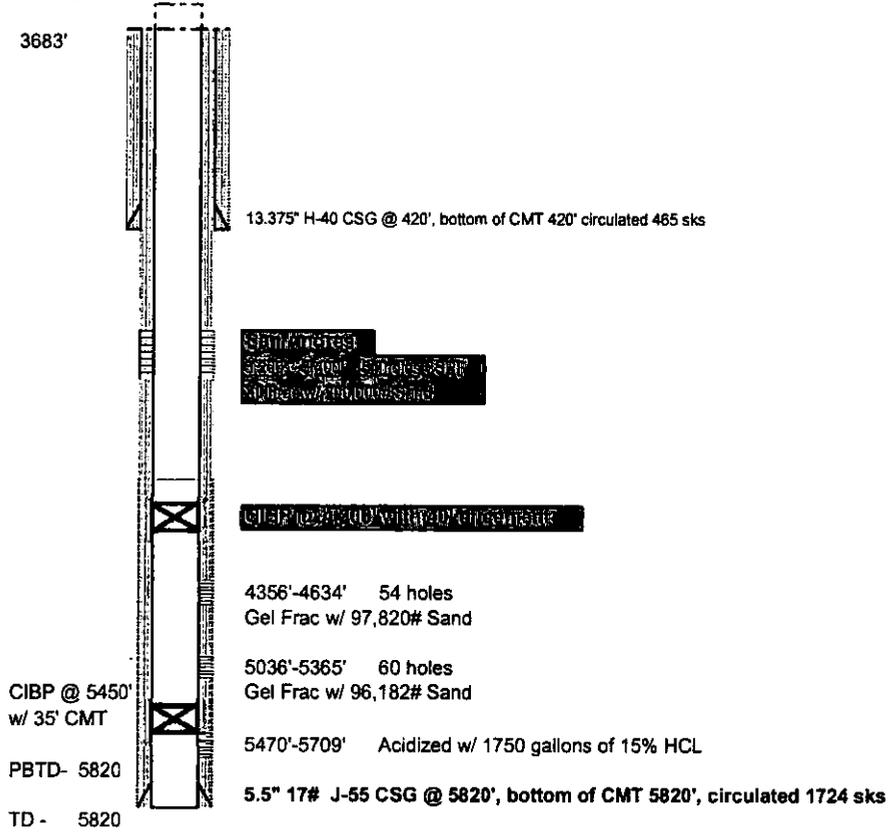
COG Operating, LLC
Proposed WBD

Lease & Well # AVALON FEDERAL #001
API#30-015-35950

Eddy Co., NM
P-06-17S-30E 330 FSL 990 FEL

Spud - 1/16/2008

Elevation - 3683'



BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Conditions of Approval for Permanent Abandonment of a Production Zone

1. **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. For wells in Lea County, call 575-393-3612
2. **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 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
3. **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.
4. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the approved 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 (or 35 feet with a bailer). Before pumping cement on top of CIBP, a 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.
5. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file a 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. If plugging back to a new zone submit a Completion Report (Form 3160-4) with the Subsequent Report.
6. **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.
7. **If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken:** From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.