

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT
OCOD-ARTESIA
SEP 29 2014

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

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED
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.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMMN104667
2. Name of Operator COG OPERATING LLC Contact: BRIAN MAIORINO E-Mail: bmaiorino@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-221-0467	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T26S R25E NENE 1300FNL 660FEL		8. Well Name and No. TUNA 28 FEDERAL 1
		9. API Well No. 30-015-37645-00-S1
		10. Field and Pool, or Exploratory WILDCAT WC 5262522F; BS (645)
		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			
<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 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 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 recompleat 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 recompleat 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 abandon the 1st, 2nd, and 3rd Bone Springs and recompleat to the Avalon Shale in the Tuna 28 Federal #1

MIRU

Swab test 2nd Bone Spring. Ensure tubing volume is cleared and water is clean. Obtain water sample and give to Baker.
Remove wellhead & install BOP.
Release Packer & TOH
Ensure hole is full
Run GR/CBL from 6330? to 2000?
Set CIBP @ 5400?
Perforate Avalon Shale @ 5230? (16 holes), 5150? (8 holes) and 5020? (14 holes) w/6 spf, 600

Accepted for record
NMOCD 10/9/14

**WITNESS
PLUG BACK**

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #232585 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 02/04/2014 (14JAM0044SE)	
Name (Printed/Typed) BRIAN MAIORINO	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 01/21/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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.	

APPROVED

SEP 24 2014

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****
**SUBJECT TO LIKE
APPROVAL BY STATE**

Additional data for EC transaction #232585 that would not fit on the form

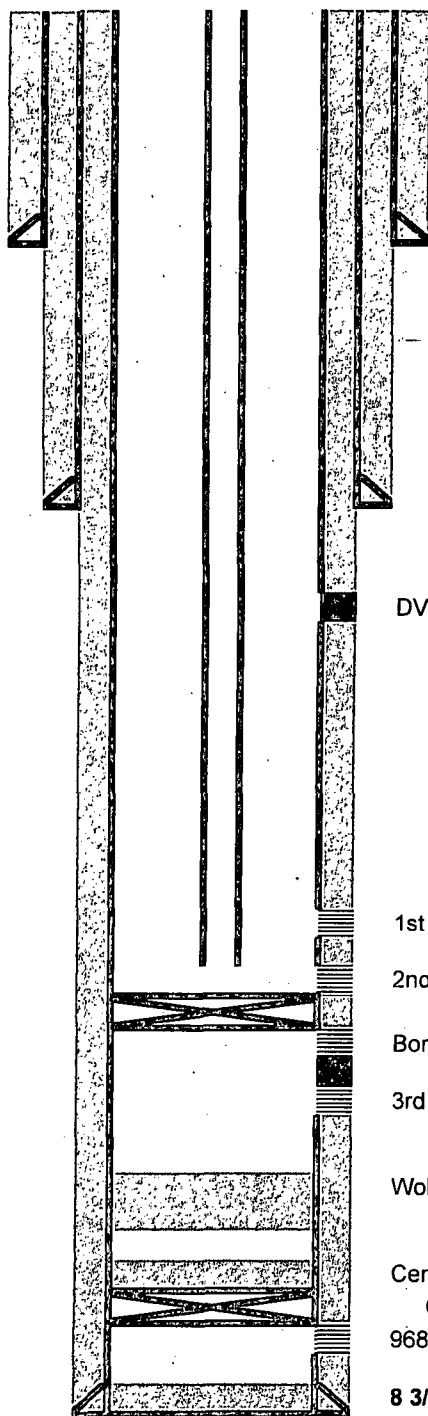
32. Additional remarks, continued

phasing utilizing Halliburton cased hole log dated 6/21/10.
TIH w/tubing & packer. Spot acid across perms. Set packer at 4950?
Acidize zone with 3000 gallons 15% HCl at 3 ? 5 BPM while dropping balls
Shut-in 1 hour & flow back
Swab test zone. If after load is recovered and no show of gas, will need to swab test each perf cluster individually
Pull tubing and packer
Set frac valve & prepare for frac.
Frac well.
Shut-in well for 24 hours
Flow well back until dead.
TIH with tubing & gas lift equipment (if needed).
Place well on test

All operations will be conducted using a closed loop system.

Author:	Stroup	Well No.	#1
Well Name	Tuna 28 Fed	API #:	30-015-37645
Field	Milepost	Prop #:	
County	Eddy	Zone:	Bone Spring
State	New Mexico		
Date	4/15/2013		
GL	3680'		
KB	3697'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13 3/8	H40	48	279	360	Surface
Inter Csg	9 5/8	J55	36	1,220	550	Surface
Prod Csg	7	P110	23	9,962	1,475	Surface
Liner						



17 1/2" hole

13-3/8" (H40 - 48#) @ 279' w/360 sx
TOC @ surface

2-3/8" N80 Tbg

12 1/4" hole

9-5/8" (J55 - 36#) @ 1220' w/550 sx
TOC @ surface

DV Tool @ 3003' w/500 sx

Short Joint @ 6572'

197 jts 2 3/8" tubing

1st Bone Spring: 5449, 5502, 5556, 5614

Packer @ 5904'

2nd Bone Spring: 6003, 6057, 6130, 6206

CIBP @ 6330'

Bone Spring Charkey Sand: 6664, 6716, 6775, 6865

DV Tool @ 6985' w/550 sx

3rd Bone Spring: 7306, 7352, 7411, 7505

Wolfcamp cement plug: 7600-7820

Cement plug 9218-9522

CIBP @ 9630'

9680-82, 9686-95, 9698-9700 Morrow

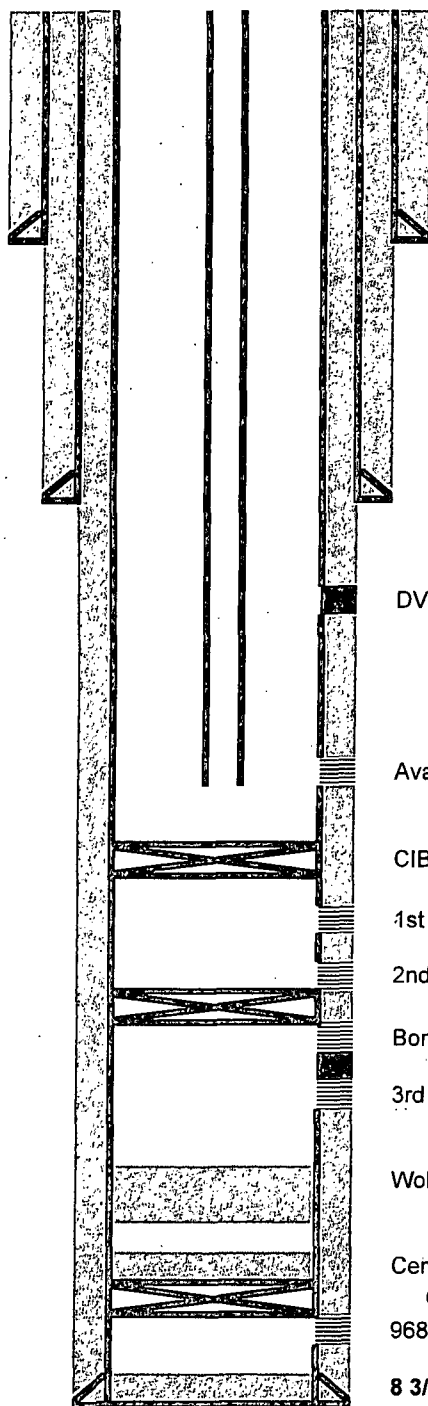
8 3/4" hole

7" (P110 - 23#) @ 9962' w/425 sx
TOC @ Surface

TD @ 10000'

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County	Eddy	Prop #:	
State	New Mexico	Zone:	Bone Spring
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Liner						



Proposed Wellbore

17 1/2" hole

13-3/8" (H40 - 48#) @ 279' w/360 sx
TOC @ surface

2-3/8" N80 Tbg

12 1/4" hole

9-5/8" (J55 - 36#) @ 1220' w/550 sx
TOC @ surface

DV Tool @ 3003' w/500 sx

Short Joint @ 6572'

Avalon Shale: 5020, 5150, 5230

CIBP @ 5400'

1st Bone Spring: 5449, 5502, 5556, 5614
Packer @ 5904'

2nd Bone Spring: 6003, 6057, 6130, 6206
CIBP @ 6330'

Bone Spring Charkey Sand: 6664, 6716, 6775, 6865
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TOC @ Surface

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Conditions of Approval

COG Operating
Tuna – 01, API 3001537645
T26S-R25E, Sec 28, 1300FNL & 660FEL
September 24, 2014

1. A NMOCD Form C-102 "Well Location and Acreage Dedication Plat" with updated information is necessary with the notice of intent package when recompletion changes a well's Pool designation.
2. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
3. Subject to like approval by the New Mexico Oil Conservation Division.
4. Considering that the well is to be used for commercial water disposal a BLM Right of Way Agreement is to be secured before its use.
5. Notify BLM 575-200-7902 Eddy Co. as work begins. Some procedures are to be witnessed. If there is no response, call 575-361-2822, 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 H₂S monitoring equipment shall be on location.
9. 3000 (3M) Blow Out Prevention Equipment 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) equipment shall be 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.) shall be 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 fracturing operations or any other crew-intensive operations.
11. The BLM PET witness 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. **This procedure is subject to the next three numbered paragraphs.**
13. Set cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft from 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 1/2" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.

14. Class H > 7500ft & C < 7500ft) 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. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft³/sx, 6.3gal/sx water and "H" to be mixed 16.4#/gal, 1.06ft³/sx, 4.3gal/sx water.
15. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
16. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 6330 or below to top of cement taken with 0psig casing pressure. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779.**
17. **Should the operator not intend to produce the open Bone Spring perms 6003-7503 with the proposed 5020-5230 Avalon Shale (within Bone Spring formation) the next two numbered paragraphs will need to be accomplished.**
18. **Tag the existing cement plug at 7525 and set a minimum 40sx Class "H" plug from this PBTD. The plug is to cover the Wolfcamp formation top of 7525. Tag the plug with tubing above or at 7475.**
19. **Set a minimum 35sx Class "C" plug from 7035 to cover the DV Tool at 6985. Tag the plug with tubing above or at 6930.**
20. After setting the top plug and before perforating, perform a charted casing integrity test of 1000psig minimum. Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 25 to 85 per cent of its full range. **Verify all annular casing vents are plumbed to the surface and open during this pressure test. Call BLM 575-200-7902 and arrange for a BLM witness of that pressure test.** Include a copy of the chart in the subsequent sundry for this workover.
21. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
22. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
23. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

An inactive/shut-in well bore is a non-producing completion that is capable of "beneficial use" i.e. production in **paying quantities** or of service use.

24. Submit evidence to support your determination that the well has been returned to active "beneficial use" for BLM approval on the Sundry Notice Form 3160-5 (the original and 3 copies) before 12/20/2014.

25. Should “beneficial use” not be achieved submit for BLM approval a plan for plug and abandonment.

PRS 09242014

Access information for use of Form 3160-5 “Sundry Notices and Reports on Wells”

NM Fed Regs & Forms - http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.—