

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.  
NMNM2515  
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**

JAN 16 2019

1. Type of Well  
 Oil Well  Gas Well  Other  
2. Name of Operator  
COG OPERATING LLC  
Contact: ABIGAIL ANDERSON  
E-Mail: abbym@bcmmandassociates.com

8. Well Name and No.  
MESA VERDE 15 FEDERAL 01  
9. API Well No.  
30-025-36836-00-S1

3a. Address  
ONE CONCHO CENTER 600 W ILLINOIS AVENUE  
MIDLAND, TX 79701-4287  
3b. Phone No. (include area code)  
Ph: 432-580-7161

10. Field and Pool or Exploratory Area  
HAT MESA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 15 T21S R32E NENE Lot A 990FNL 990FEL

11. County or Parish, State  
LEA 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 type="checkbox"/> Recomplete <input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans <input checked="" 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 recompleate 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.

RIH Tag CIBP @ 1190. Dump Bail 35' emt.

- MIRU. ND well head, NU BOP. POH w/ tbg.
- Set 5 1/2" CIBP @ 8975'. Pressure test csg. Circ hole w/ MLF. Spot 25 sx cmt @ 8975-8725'.
- Spot 25 sx cmt @ 5330-5130'. WOC & Tag (8 5/8" Shoe) 5586 - 5233. Tag (Dal & shoe) 35 sx.
- Perf & Sqz 400 sx cmt @ 3680-1700'. WOC & Tag (11 3/4" Shoe, R-111P Potash Area, & DV Tool)
- Perf & Sqz 50 sx cmt @ 1594-1394'. WOC & Tag (11 3/4" Shoe).
- Perf & Sqz 25 sx @ 60' to Surface.
- Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

*Below ground level dry hole marker required. R-111-A*

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

Electronic Submission #447894 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 12/17/2018 (19DLM0193SE)

Name (Printed/Typed) ABIGAIL ANDERSON Title AGENT  
Signature (Electronic Submission) Date 12/14/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *James A. Jones* Title SAFT Date 12-19-18  
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 CFO

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 \*\*

FOR RECORD ONLY Kerry Jochen NM OCD 1-17-19

WELL NAME: Mesa Verde 15 Fed #1  
 STATE: NM  
 COUNTY: Lea  
 LOCATION: 990' R/L & 590' F/L of 15-21S-32E  
 API NO: 30-025-35636  
 SPUD DATE: 12-4-2004  
 FORMATION: Wolfcamp  
 ELEVATION: 3864'  
 TD: 14880'  
 PBTD: 14788' (4-12-05)  
 LSER: 035940

CSG	OD	GRADE	TID	W/TFT	TOP	BTM	# JTS	CEMENT & HOLE DATA				
								DT SIZE	DEPTH	SK	WT.	TOC
Surf	16 000"	K55	BTC	75 000#	0'	1544'	34	18 500"		870		Surf
Inter	11 750"	HCO125	BTC	54 000#	0'	3630'	64	14 750"		1240		Surf
Inter	8 625"	HCK55	BTC	32 000#	0'	5283'	123	10 625"		650		Surf
Prod	5 500"	P110	LTC	20 000#	0'	14850'	341	7 875"		2300		5083' Ex.
Tbg	2 375"	L80	EUE 3rd	4 700#	0'	117-9'	370					

Remarks:

3/10/05: Frac perfs 14,689-14,528 w/ 97,593# 20-40 Ultra Prop 275 tons Co2 downhole and 694 bbbls fluid

3/31/05: Frac Upper Maroon w/ 100,000# 10-40 Ultra Prop 1060 bbbls fluid and 293 tons Co2

4/28/05: First sales

3/27/06: (Perfs 13844-13908 - Upr Maroon) Acids w/ 4500 gals 7% NEFE acid and 35 balls Balled out w/ 32 bats on 3.3 avg bpm

4/1/06: (Perfs 13338-13554 - Atoka) Acids w/ 2000 gals 7% NEFE acid and 21 balls Balled out w/ 16 bats on 7000#

4/7/06: (Perfs 13158-13310 - Strawn) Acids w/ 10 bbbls acid and 14 balls on formation Balled out w/ 7-11" Pump Up Fresh pumps flush 5742# 3 bpm

5/8/06: (Perfs 13158-13310 - Strawn) Frac treat w/ 19,839# 20-40 Borehole sand and 4520 bbbls of fluid

6/19/06: (Perfs 13118-13120-13158-13310 - Strawn) Acids w/ 1000 gals 7.5% HCl acid w/ ball sealers Plus w/ 64 bbbls 4% KCl over, little ball action

6/26/06: Set well up for intermittent sales

10/5/06: (Perfs 13116-13128 - Strawn) Acids w/ 1000 gals 7.5% NEFE acid

10/8/06: (Perfs 11047-13074 - Wolfcamp) Acids w/ 4500 gals 7.5% NEFE acid w/ 82 ball sealers  
Propose to recomplete to the Bone Spring

CAPACITIES			
(bbbl/ft)	(ft/bbl)	(cf/ft)	
TBG 2.375 in 4 7/8			
CSG 5 5/8 in 20#	02210	45.09	12-450

VOLUME BETWEEN			
(bbbl/ft)	(ft/bbl)	(cf/ft)	
75-100	0.37655		
75-125			
75-150			
75-175			

PERFORMANCE RECORD					
DATE	TOP	BTM	ZONE	STATUS	SPF
Note: For Perfs prior to 2006 See Comments					
9/25/2003	13500'	13500'	Upr Mar	Abandoned	2
9/26/2006	13070'	13074'	Upr Mar	Abandoned	2
9/23/2006	13544'	13550'	Upr Mar	Abandoned	2
3/31/2005	13338'	13554'	Atoka	Abandoned	2
4/1/2006	13158'	13310'	Strawn	Abandoned	1
6/10/2006	13116'	13128'	Strawn	Abandoned	4
10/7/2006	13044'	13074'	Wolfcamp	Abandoned	
Proposed	5083'	5083'	Bone Spring	Open	
Proposed	5100'	5100'	Bone Spring	Open	
Proposed	5115'	5120'	Bone Spring	Open	

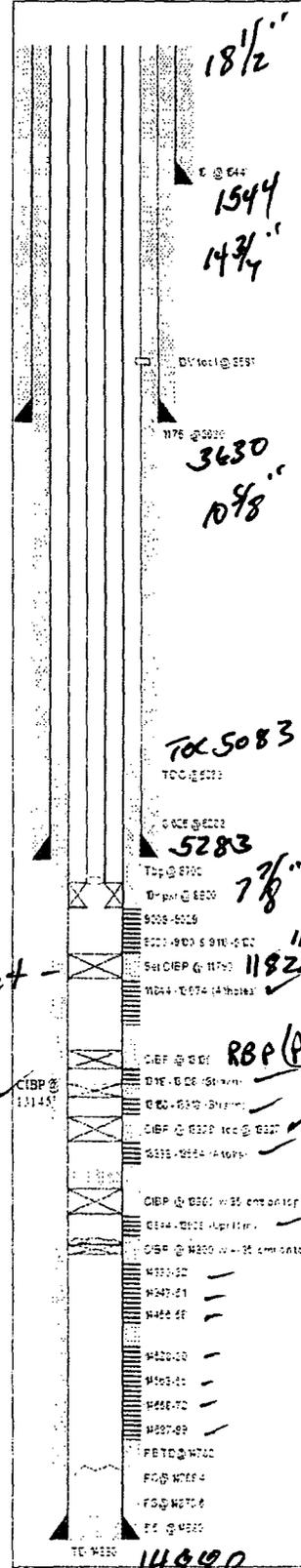
LOGS: Triple Combustion 30-05

SRC W/12

LOGS: Triple Combustion 30-05

Material	TUBULAR GOODS PERFORMANCE				
	ID (in)	Drift (in)	Collapse (psi)	Burst (psi)	Tensile (lbs)
16" K55 BTC 75#	15.124	14.935	1 020	2 639	1 331 000
11 75" HCO125 BTC 54#					
8 625" HCK55 BTC 30#	7.921	7.796	4 130	3 930	558 000
5 5" P110 LTC 20#	4.770	4.653	11 080	12 640	448 000
2 375" L80 EUE 3rd 4 7/8	1.995	1.901	11 700	11 200	

\*Safety Factor Not Included



Restler 1500

Yates 3515

Capitan 3670

Del. 5536

BS 9864

WC 11842

Per 1210

ST 1313

AT 1332

MR 135

BT 14800

PBTD 14788

32.4833755  
 -103.6572571

PREPARED BY: LeAnne Haskins  
 DATE: 4-20-2005  
 Updated: 9-18-2010 gjs

OFFICE: (916) 503-1781  
 FAX: (916) 591-1702

6. Perf & Sqz 25 sx cmt @ 60' to surface.

WELL NAME	Mesa Verde 15 Fed #1	FIELD: Hat Mesa	LSER: 036940
STATE:	NM	COUNTY: Lea	LOCATION: 990' FWL & 990' FEL of 15-215-32E
API NO:	30-025-36836	SPUD DATE: 12-4-2004	FORMATION: Wolfcamp
TD:	14880'	PBTD: 14788' (4/12/05)	ELEVATION: 3684'

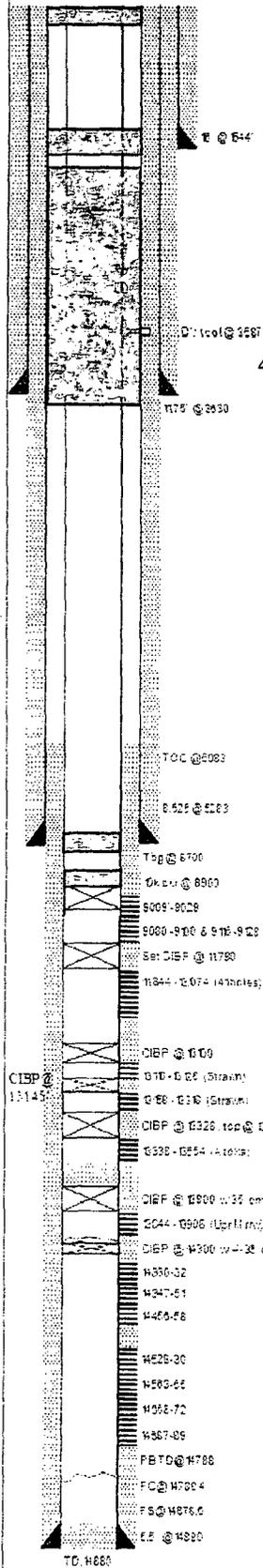
5. Perf & Sqz 50 sx cmt @ 1594-1394'. WOC & Tag (11 3/4" Shoe)

4. Perf & Sqz 400 sx cmt @ 3680-1700'. WOC & Tag (11 3/4" Shoe, R-1119 Potash Area, DV Tool)

3. Spot 25 sx cmt @ 5330-5130'. WOC & Tag. (8 5/8" Shoe)

2. Set 5 1/2" CIBP @ 8975'. Pressure test csg. Circ hole w/ MLF. Spot 25 sx cmt @ 8975-8725'.

1. MIRU. ND WH, NU BOP. POH w/ tbg



TD 14880'

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

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

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 the approval date of this Notice of Intent to Abandon.

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

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

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. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. Before pumping or bailing 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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off. Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.

8. 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1<sup>st</sup> through June 15<sup>th</sup> 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