

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.***SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator COG OPERATING LLC	Contact: ABIGAIL ANDERSON E-Mail: abbym@bcmmandassociates.com	5. Lease Serial No. NMNM2515
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287	3b. Phone No. (Area code) Ph: 432-581-7161	7. If Unit or CA/Agreement, Name and/or No. NMNM111771	6. If Indian, Allottee or Tribe Name
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 2 T21S R32E SENE Lot 8 1944FNL 660FEL	9. API Well No. 30-025-36290-00-S1	10. Field and Pool or Exploratory Area HAT MESA	8. Well Name and No. MINIS 2 FEDERAL COM 04
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"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Change Plans
	<input checked="" type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input type="checkbox"/> Other

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.

- R-111-P Solid Plug Salt Section**
- Set 5 1/2" CIBP @ 13,601'. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 13,601-13,400'.
  - Spot 25 sx cmt @ 12908-12678'. (Strawn)
  - Spot 25 sx cmt @ 11,650-11,460'. (Wolfcamp) 11804 - 11604
  - Spot 25 sx cmt @ 8750-8550'. (Bone Spring)
  - Spot 25 sx cmt @ 5465-5300'. WOC & Tag (T/Delaware & 8 5/8" Shoe) 5504
  - Perf & Sqz 350 sx cmt @ 3194-1500'. WOC & Tag (11 3/4" Shoe, R-111-P Potash Area, 16" Shoe) 1470
  - Perf & Sqz 25 sx cmt @ 60' to surface. Deep Shot 2 Csg's.
  - Cut off well head, verify cmt to surface, weld on Below Ground Dry Hole Marker.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #474447 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 07/22/2019 (19PP2596SE)</b>	
Name (Printed/Typed) ABIGAIL ANDERSON	Title AGENT
Signature (Electronic Submission)	Date 07/22/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>Jamaal C. [Signature]</u>	Title <u>SAET</u>	Date <u>7-28-19</u>
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 <u>CFO</u>

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****SUBJECT TO LIKE****X7 NMOC D 9-6-19**

WELL NAME: Minis 2 Fed Com #4		FIELD: Hat Mesa		LSE#: 012928	
STATE: NM		COUNTY: Lea		LOCATION: N/2 SE NE 2-21S-32E	
API NO: 30-025-36290		SPUD DATE: 6/30/2003		FORMATION: Morrow	
TD: 14400'		PBTD: 14270'		ELEVATION: 3659' GL	

PIPE RECORD							CEMENT & HOLE DATA					
CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	WT.	TOC
Surf	16.000"	J-55	BTC	84.00#	Surf	1556'	38	18.500"		890		Surf
Inter	11.760"	K-55/N-80	BTC	54# & 65#	Surf	3144'	72	14.750"		1280		Surf
Inter	8.625"	HCK-55	LTC	32.00#	Surf	5350'	119	10.625"		900		350'
Prod	5.500"	P-110	LTC 8rd	20.00#	Surf	14398'	350	7.875"		1540		5036'
Tbg	2.375"	N80	EUE 8rd	4.70#	Surf	13647'	427					

Remarks:

8/27/03: Frac Morrow (14064-194') w/827 bbls gel fluid, 270 tons CO2 & 120,000# 20/40 Bauxite

9/4/03: Frac Morrow (13868-918') w/831 bbls 40# & 35# gel, 250 tons CO2 & 110,765# 20/40 Bauxite

9/11/03: Frac Morrow (13651-678') w/847 bbls Purgel, 250 tons CO2 & 103,020# 20/40 Bauxite

9/18/03: Drilled out to 14,212'

4/19/05: Acidized Morrow with 501 bbls 15% acid

Logs: Dual Laterolog, Micro Guard, Spectral Density, Dual Spaced Neutron & GR (8/10/03)

SRC WI%: 100%

CSG COLLARS		ELM/GRM		
CAPACITIES		(bbl/ft)	(ft/bbl)	(cf/ft)
TBG: 2.375 in. 4.7#		.00387	258.65	.02171
CSG: 8.625 in. 32#		0.0609	16.41	0.3422
CSG: 5.5 in. 20#		.02210	45.09	12450
VOLUME BETWEEN		(bbl/ft)	(ft/bbl)	(cf/ft)
TBGxCSG	2.375x5.5	.01670	59.89	09370
TBGxHOLE				
CSGxHOLE				
TBGxHOLE				

PERFORATION RECORD				
DATE	TOP	BTM	ZONE	STATUS
8/22/2003	14190'	14194'	Morrow	Active
8/22/2003	14159'	14162'	Morrow	Active
8/22/2003	14104'	14107'	Morrow	Active
8/22/2003	14064'	14067'	Morrow	Active
9/1/2003	13914	13918	Morrow	Active
9/1/2003	13868	13877	Morrow	Active
9/10/2003	13672	13678	Morrow	Active
9/10/2003	13651	13660	Morrow	Active

16" @ 1556'

11.75" @ 3144'

TOC @ 5036'

8.625" @ 5350'

MJ @ 12410'

Tbg @ 13647'

13651-60' } Morrow ✓

13672-78' }

13868-77' } Morrow ✓

13914-18' }

14064-67' } Morrow ✓

14104-107' }

14159-62' }

14190-94' }

Tagged @ 14210' (4/19/05)

FC @ 14312'

FS @ 14398'

5.5" @ 14398'

TD 14400' PBTD 14365'

Tubing Detail as of 8/19/09:  
 KB = 24'  
 426 JTS 2 3/8" L-80 TUBING = 13594  
 1.875" X NIPPLE = 1.875"  
 1 JT 2 3/8" TUBING = 32.23'  
 END OF TUBING = 13647'

T/Salt 1520

B/Galt 3112

Yates 3130

Capitan 3529

Del 5454

Cherry 5650

Brushy 7250

BS 8649

1st 9600

2nd 10196

3rd 11020

WC 11704

St 12786

A+ 12945

MR 13818

Bar 14282

32.5169716

-103.6390305

MR 13488

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7. Perf & Sqz 25 sx cmt @ 60' to Surface.

16" @ 1556'

6. Perf & Sqz 350 sx cmt @ 3194-1500'. WOC & Tag (11 3/4" Shoe, R-111-P Potash Area, 16" Shoe)

11 3/4" @ 3144'

5 1/2" TOC @ 5036'

8 5/8" @ 5350'

5. Spot 25 sx cmt @ 5455-5300'. WOC & Tag (T/Delaware & 8 5/8" Shoe)

4. Spot 25 sx cmt @ 8750-8550' (Bone Spring)

3. Spot 25 sx cmt @ 11,650-11,450' (Wolfcamp)

MJ @ 12410'

2. Spot 25 sx cmt @ 12,908-12,678'. (Strawn)

1. Set 5 1/2" CIBP @ 13,601'. Circ hole w/ MLF. Pressure test csq. Spot 25 sx cmt @ 13,601-13,400'

13651-60'  
13672-78'

Morrow

13868-77'  
13914-18'

Morrow

14064-67'  
14104-107'  
14159-62'  
14190-94'

Morrow

Tagged @ 14210' (4/19/05)  
FC @ 14312'  
FS @ 14398'

5 1/2" @ 14,398'

TD: 14400'

**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