

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM14791

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
NEW MEXICO C FEDERAL 19. API Well No.
30-025-25430-00-S110. Field and Pool or Exploratory Area
S SALT LAKE11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: ABIGAIL ANDERSON
E-Mail: abbym@bcmmandassociates.com3a. Address
ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-42873b. Phone No. (include area code)
Ph: 432-580-7161

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 4 T21S R32E NESE 1980FSL 660FEL
32.505984 N Lat, 103.673314 W Lon

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 recompletable 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.

1. MIRU. ND well head, NU BOP. POH w/ tbg.
2. Set 5 1/2" CIBP @ 13,602'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 13,602-13,400'.
3. Spot 25 sx cmt @ 12650-12450'.
4. Spot 25 sx cmt @ 11,200-11,000'.
5. Perf & Sqz 50 sx cmt @ 8700-8500'. WOC Tag
6. Perf & Sqz 50 sx cmt @ 5622'-5522'. WOC & Tag (8 5/8" Shoe) 5472. Add Plug. Perf @ 3580 SQZ cmt to 3450. WOC Tag (T/Reef)
7. Perf & Sqz 400 sx cmt @ 3358-1500'. WOC & Tag (DV Tool, R-111-P)
8. Perf & Sqz 110 sx cmt @ 518' to surface.
9. 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.

Electronic Submission #464207 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/06/2019 (19PP1775SE)

Name (Printed/Typed) ABIGAIL ANDERSON

Title AGENT

Signature (Electronic Submission)

Date 05/06/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>[Signature]</i>	Title SALT	Date 5-20-19
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 ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED

FOR RECORD ONLY

X2 NMOC 6-12-19

WELL:	N M Federal "C" #1	LEASE#: 011686	SPUD: 1/18/1977
COUNTY:	Lea	API: 30-025-25430	LOCATION: 1980' FSL & 660' FEL
STATE:	New Mexico	FIELD: Salt Lake South	4-21S-32E
		FORMATION: Morrow	
TD:	14,125'		
PBTD:	13,996'	ELEVATION: 3,735' KB	18' above GL

CASING RECORD

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	5X CMT.	TOP CMT.
13.375"	48.00#	H40	ST&C	0'		9	17.500"	650	Surface
13.375"	54.50#	K55	ST&C		468'	2	17.500"		
9.625"	47.00#	N80	LT&C	0'		150	12.250"	2325	Surface
9.625"	53.50#	N80	LT&C		5,572'		12.250"		
5.500"	20.00#	N80	LT&C & BTC	0'		355	7.875"	875	9,310'
5.500"	17.00#	N80			14,124'		7.875"		

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2.875"	6.40#	N80	EUE	0'	13,765'		

PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
04/12/77	13,688'	13,691'		Morrow	Open
04/12/77	13,697'	13,699'		Morrow	Open
04/12/77	13,737'	13,739'		Morrow	Open
04/12/77	13,753'	13,769'		Morrow	Open
04/12/77	13,847'	13,850'		Morrow	Open
04/12/77	13,857'	13,859'		Morrow	Open
04/12/77	13,900'	13,912'		Morrow	Open
04/12/77	13,929'	13,933'		Morrow	Open
04/12/77	13,939'	13,943'		Morrow	Open
04/12/77	13,989'	13,996'		Morrow	Open
04/12/77	14,008'	14,011'		Morrow	Open
04/12/77	14,023'	14,027'		Morrow	Open
11/30/93	13,753'	13,769'	2	Morrow	Open re-shot
11/30/93	13,686'	13,700'	2	Morrow	Open re-shot
11/30/93	13,652'	13,662'	2	Morrow	Open New

REMARKS

4/24/77	Acidized perfs 1/13,688'-14,011' with 6000 gals 7.5% E2 flow acid and 90 ball sealers w/1225 SCF CO2/bbl. Had some ball action but did not ball out.
12/07/93	TOOH and replace bad tbg. Pumped 4000 gals 7.5% Mod-101 w/1000 psi on casing (Acid contained 2000 gals methanol and 2% KCL water). 700 foam using 45 tons CO2. Dropped 100 ball sealers. Some ball action. ISIP=3021.
11/24/97	Clean out
12/98	Salt cleanout. Put on plunger lift
01/01/99	RU coil tbg unit. Clean out wellbore to 13,995' using 3% KCL & N2 Foam. Salt plugs in tbg.
07/27/00	Remove salt t/btg. FTP 140 psi, SICP 200 psi, catch plunger. plunger btm 1/2 covered wiperfltn. Pump 7 bbl 4% KCL / 5 gal soap down csg & wait for plunger to fall.
2002	Remove salt t/btg (5/02, 6/02 & 11/02)
2003	Remove salt t/btg (3/03, 5/03, 8/03)
2004	Remove salt t/btg (9/04)

Tubing Detail as of 11/11/09:

KB: 18'
438 JTS @ 13915'
PKR without rubbers- 344 JTS @ 10916'

CAPACITIES

TUBULAR Cap.		
	Bbl/ft	Ft3/ft
Tubing	0.00579	0.03253
Casing (5.5" 17#)	0.02324	0.13050
Casing (5.5" 20#)	0.02217	0.12450
Annular Cap.		
	Bbl/ft	Ft3/ft
Tubing x Casing(17#)	0.01521	0.08540
Tubing x Casing(20#)	0.01414	0.07940
Casing x Hole	0.03090	0.17330

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
13.375" 48# H40 ST&C	547,000	2,730	1,130	12.615	12.459
13.375" 54.5# K55 ST&C	322,000	1,730	770	12.715	12.559
9.625" 47# N80 LT&C	905,000	6,670	4,750	8.681	8.525
9.625" 53.5# N80 LT&C	1,062,000	7,930	6,620	8.535	8.379
5.5" 20# N80 LT&C & BTC	428,000	9,190	8,830	4.778	4.653
5.5" 17# N80	348,000	7,740	6,280	4.892	4.767
2.875" 6.4# N80 EUE	144,960	10,570	11,160	2.441	2.347

*Safety Factor Not Included

Rustler 1392
B/sa 14 3244
Yates 3358
C-Rest 3530
D.L. 5610/BS 8600
WC 11060
CYN 12400
ST 12605
AT 12750
MR 13544
LWR 13962

32.5059814

-103.6733017

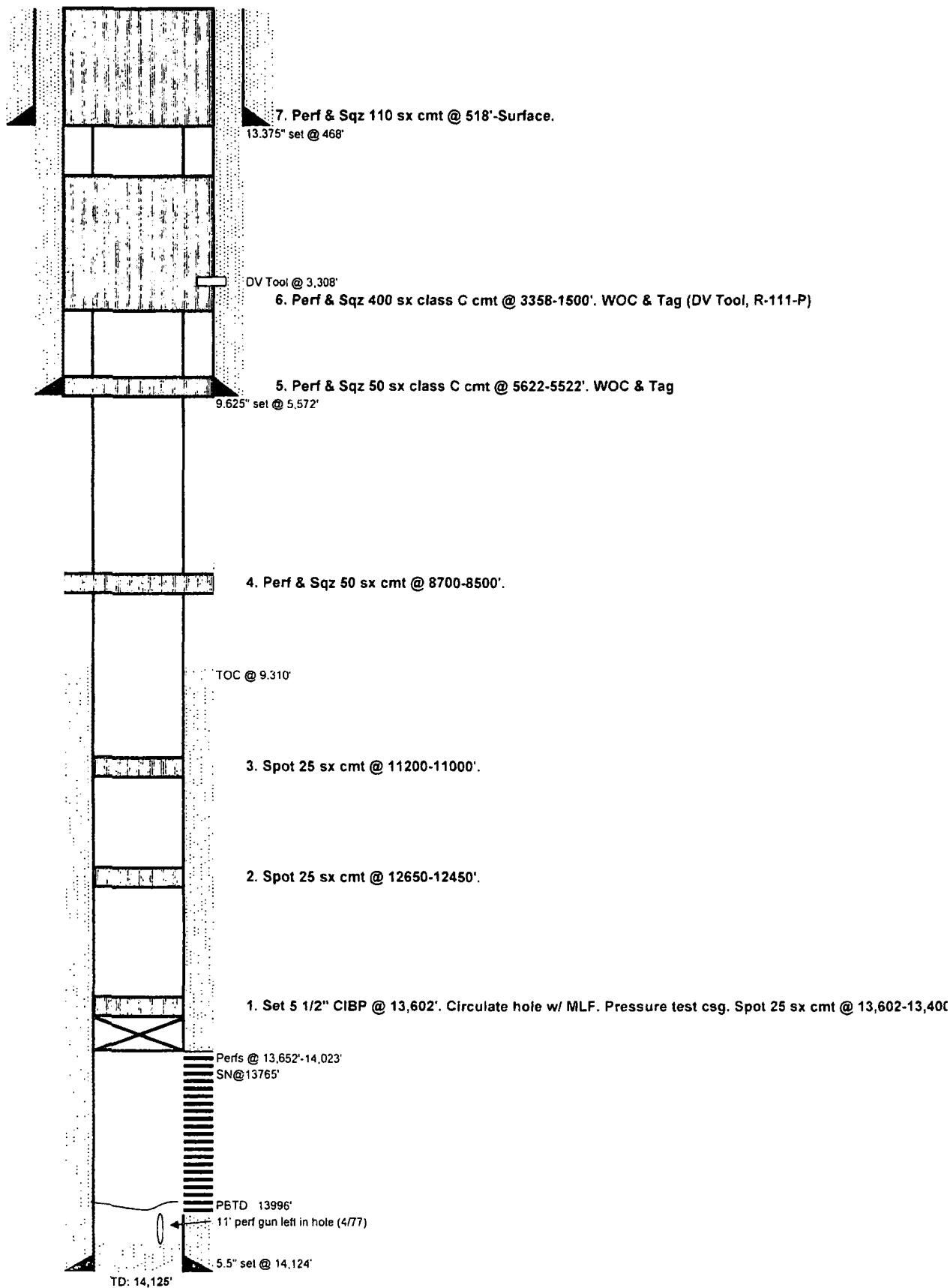
TD: 14,125'

MISCELLANEOUS

SRC Wt%:	75.00%	BHT:
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Engineer: Eric Outlaw
Office#: 918-591-1929
Fax#:
Prepared By: Sarah White
Date: 10-21-97
Updated: 8/16/00 jdb
11/16/09 GLS

WELL:	N M Federal "C" #1	LEASE#:	011686	SPUD:	1/18/1977
COUNTY:	Lea	API:	30-025-25430	LOCATION:	1980' FSL & 660' FEL
STATE:	New Mexico	FIELD:	Salt Lake South		4-21S-32E
		FORMATION:	Morrow		
TD:	14,125'				
PBTD:	13,996'	ELEVATION:	3,735' KB		18' above GL



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 90th day provide this office, prior to the 90th 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 10th 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 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