

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

MAY 18 2009

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

**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 reverse side.**

1 Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator

C.O.G. OPERATING LLC

3a Address

SUITE 1300

3b. Phone No (include area code)

550 W. TX. AVE. MIDLAND TX 79701 432-530-0907

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

1980' F.N.L., 1980' F.E.L.

UNIT G - SECTION 33 - T20S, R27E

5 Lease Serial No.

NMLC - 072015-C

6 If Indian, Allottee or Tribe Name

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

8 Well Name and No

HANSON FEDERAL

9. API Well No

30-015-21586

10 Field and Pool, or Exploratory Area

AVALON - W. FLANP SW 61

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

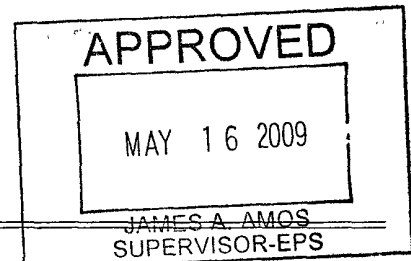
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> 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 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 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.)

SEE ATTACHMENT

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

\* See Charges



14 I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

RANDALL MINER

Title

AGENT

Signature

Randall Miner

Date

5-11-09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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.

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)

60/6/15  
5/19/09



B4/23/2607 14:41

5653538728

BARD CDD

## PLUGGING &amp; ABANDONMENT WORKSHEET

BOSTON CANY

OPERATOR  
LEASENAME

C O G

CLEPATE

C O Eddy

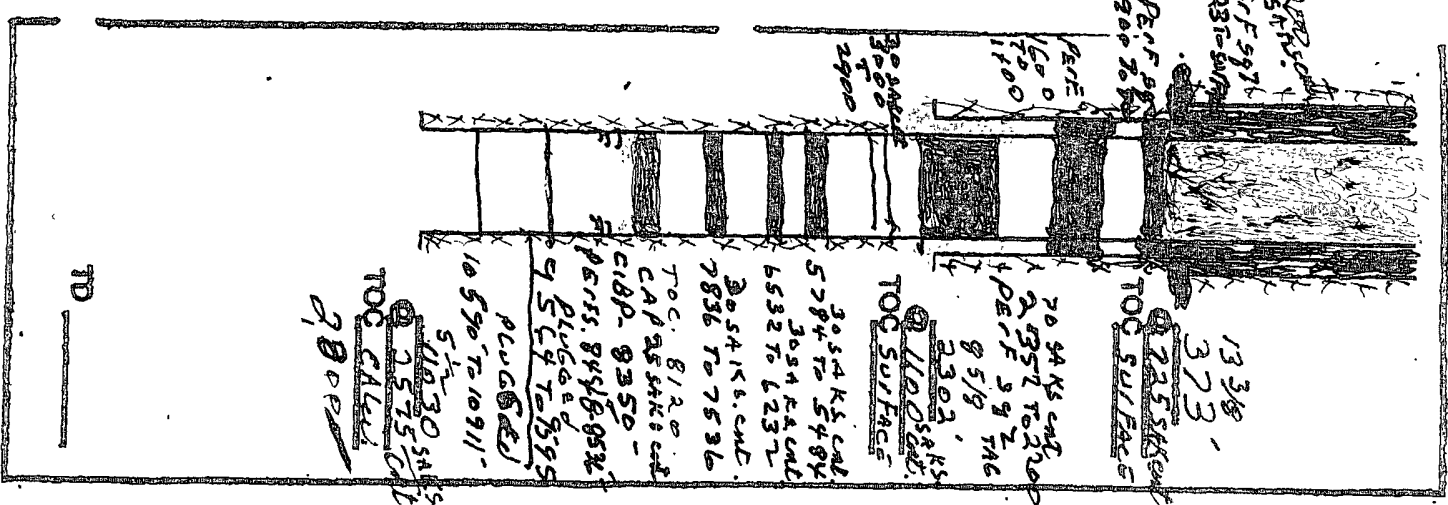
WELL # 203

SECT FROM TO: PBD: TWIN NSL RING EWL  
 FORMATION @ TO FORMATION @ PBD

SURFACE	SIZE	SET @	TOC	THICKNESS/ABANDONED BY
INTIMED 1				
INTIMED 2				
PROD	SIZE	TOP	BOT	TOC
LINER 1				
LINER 2				
INTIMED 1				
INTIMED 2				
PROD				

## \* ABANDONED LINES SUMMARY \*

WELL	TYPE	WATER	DEPTH
WELL 1	WELL	WELL	WELL
WELL 2	WELL	WELL	WELL
WELL 3	WELL	WELL	WELL
WELL 4	WELL	WELL	WELL
WELL 5	WELL	WELL	WELL
WELL 6	WELL	WELL	WELL
WELL 7	WELL	WELL	WELL
WELL 8	WELL	WELL	WELL
WELL 9	WELL	WELL	WELL
WELL 10	WELL	WELL	WELL
WELL 11	WELL	WELL	WELL
WELL 12	WELL	WELL	WELL
WELL 13	WELL	WELL	WELL
WELL 14	WELL	WELL	WELL
WELL 15	WELL	WELL	WELL
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WELL 94	WELL	WELL	WELL
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WELL 98	WELL	WELL	WELL
WELL 99	WELL	WELL	WELL
WELL 100	WELL	WELL	WELL



C.O.G. OPERATING

HANSON FED. # 003

Eddy CO. N.M.

\* Add RIH Tag CIBP @ 9430 Capw/35' DB or Spot 25 sk min  
"H" cmt

1- SET CIBP AT 8350' CAP 25 SAKS cnt  
T.O.C. CALCULATED 8120 "H" cmt MUD UP HOLE.

2- P.U.H. TO 7836' SPOT 30 SAKS cnt  
T.O.C. CALC. 7536'. "H" cmt

3- P.U.H. 6532' SPOT 30 SAKS cnt T.O.C.  
"H" cmt CALC. 6232'. ~~45~~ 3000 To 29000 30 SAKS cnt

4- ~~4~~ P.U.H. TO 5784' SPOT <sup>SPACER</sup> 30 SAKS cnt  
W.O.C. TAG 5484.

6- PERF. AT 2352' SgZ. 70 SAKS cnt.  
W.O.C. TAG 2200'.

7- PERF. AT 1600' SgZ 90 SAKS  
cnt. W.O.C. TAG 1400'.

8- PERF. 900' SgZ 70 SAKS cnt  
W.O.C. TAG 800'.

9- PERF. 423' IF POSSIBLE CIRCULATE cnt.  
SURFACE 5 1/2 ~~88~~ 200 SAKS cnt

10- CAP WELL cnt IF NEEDED TO

Plug 5 spacer Plug

Plugs 7 & 8 Not necessary, serves NO purpose.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

JUN 07 2006

WV-ARTERIA

OCD COPY

FORM APPROVED  
OMBNO 1004-0137  
Expires: March 31, 2007

5 Lease Serial No					NMLC-072015C				
1a Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other					6. If Indian, Allottee or Tribe Name				
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resrv., Other _____					7 Unit or CA Agreement Name and No 34622				
2 Name of Operator COG Operating LLC					8 Lease Name and Well No Hanson Federal #003				
3 Address 550 W. Texas, Suite 1300				3a Phone No. (include area code) 432-685-4340		9 AFI Well No. 30-015-21586			
4 Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 1980' FNL & 1980' FEL, Unit G  At top prod interval reported below  At total depth					10 Field and Pool, or Exploratory Wildcat; Wolfcamp (Oil)				
11 Sec, T, R, M, on Block and Survey or Area Sec 33, T20S, R27E					12 County or Parish Eddy				
13 State NM					14 Date Spudded 05/10/2005				
15 Date T.D. Reached 06/17/2005					16 Date Completed 06/01/2006 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod				
17 Elevations (DF, RKB, RT, GL)* 3195' GL					18 Total Depth MD TVD 11,030				
19 Plug Back T.D. MD TVD 9495					20 Depth Bridge Plug Set MD TVD				
21 Type Electric & Other Mechanical Logs Run (Submit copy of each)					22 Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)				
23 Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17.5	13.375	48	373			725		CALC SURFACE	
11	8.625	32	2302			1100		CALC SURFACE	
7.875	5.5	17	11,030			2575		CALC SURFACE	
24 Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-3/8	8364	None							
25 Producing Intervals					26 Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status			
A) Wolfcamp			8,448' - 8,536'		86	Open			
B) Strawn			9,564' - 9,595'		31	Plugged			
C) Morrow			10,590' - 10,911'		20	Plugged			
D)									
27 Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval			Amount and Type of Material						
28 Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/01/2006	06/03/2006	24	→	200	388	0	52.0		FLOWING
Choke Size	Tbg Press Flwg. SI	Csg. Press.	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
18/64	SI 500		→				1940		
28a Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg. SI	Csg. Press.	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

HOLE SIZE 17 1/2"

Spud 7/31/75

CMT 425 SX "C"

DNC. 1" Suct. 300 SX  
TS 140'

H-40

CASING SIZE 13 3/8 48"

TD 373

HOLE SIZE 11"

8-5-75 Inter

CMT 1100 SX CIRC

K-SS

CASING SIZE 8 5/8 28"

TD 2302

HOLE SIZE 7 7/8"

9-24-75 L/S 2 Stage.

TOL 2300' TS

DVT @ 7024 +/-

2150 SX CMT.

CASING SIZE 5 1/2 17/20 #

TD 11030

SALT SECTIONS TOP Ø

BASE Ø

RIMP Ø

Circ. To  
Suct. F.

CAVE / KARST

SPEC. WATER

TOL SURF

INT

PROD

Suct

Suct

2300 +/-

7/5

Perf 423

Tag @ 800

Perf 900'

1400 Tag

Perf  
1400

FORMATIONS

Val. 328

7R 435

20 SX - DOL 2407

30 SX - 1<sup>st</sup> BS 5784

30 SX - 2<sup>nd</sup> BS 6532

30 SX - 3<sup>rd</sup> BS 7834

Tag 2200

Perf 2352

8350+ - WC 8283

+25 SX 9430 X

CIAP @ 9430

ST 9667

AT 10007

3000 NDT  
Needed Spacer

5784 - 160' plug

6532 - 160' plug

7834 - 170' plug

MR 10207

MR 10592

CIAP @ 8350 + 25 SX "H"

DB 35' cmt or 25 SX min "H"

CIAP @ 9430

9700 Rev. cmt

9800 20 SX cmt covers ST

10530 - 397

Mod D

20' SD

15 SX

DVT 7024

PERFORATIONS 10590 - 10911

9544 - 9595

8448 - 8536

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

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.**

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 prior to commencing any plugging operation. 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 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. In lieu of a cement plug in a cased hole, 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.

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. **Dry Hole Marker:** All casing 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 capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five 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 conditions of approval will be developed and furnished to you.