

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM105217
2. Name of Operator COG OPERATING LLC Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com		6. If Indian, Allottee or Tribe Name
3a. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4332	7. If Unit or CA/Agreement, Name and/or No. NMNM114179
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 4 T19S R31E SWSW 810FSL 660FWL		8. Well Name and No. BLUE THUNDER 4 FEDERAL COM 1
MAY 19 2008 OCD-ARTESIA		9. API Well No. 30-015-34125-00-S1
		10. Field and Pool, or Exploratory LUSK MORROW WEST (GAS)
		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 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 checked="" 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 type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable 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 Respectfully request to Recomplete from Morrow sand to Wolfcamp lime as follows:

See Attachment

14. I hereby certify that the foregoing is true and correct. Electronic Submission #60036 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 05/05/2008 (08KMS1634SE)	
Name (Printed/Typed) KANICIA CARRILLO	Title PREPARER
Signature (Electronic Submission)	Date 05/01/2008

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

Approved By JAMES A AMOS	Title SUPERVISOR EPS	Date 05/19/2008
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 Carlsbad

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

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Accepted for record - NMOCD

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised June 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-015-34125</b>	<sup>2</sup> Pool Code <b>80840</b>	<sup>3</sup> Pool Name <b>Lusk Morrow West Gas</b>
<sup>4</sup> Property Code <b>34747</b>	<sup>5</sup> Property Name <b>Blue Thunder 4 Federal</b>	<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>229137</b>	<sup>8</sup> Operator Name <b>COG OPERATING LLC</b>	<sup>9</sup> Elevation <b>3553</b>

<sup>10</sup> Surface Location

UL or lot no. <b>M</b>	Section <b>4</b>	Township <b>19S</b>	Range <b>31E</b>	Lot Idn	Feet from the <b>810</b>	North/South line <b>South</b>	Feet from the <b>660</b>	East/West line <b>West</b>	County <b>Eddy</b>
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>	
	Signature <b>Kanicia Carrillo</b> Printed Name <b>Regulatory Analyst</b> Title and E-mail Address <b>05/01/08</b> Date	
	<sup>18</sup> SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Date of Survey Signature and Seal of Professional Surveyor:		Referred Original Survey Certificate Number

**COG Operating, LLC**  
**BLUE THUNDER 4 FEDERAL #1**  
**810' FSL & 660' FWL, Sec 4, T19S, R31E**  
**Eddy County, Texas**

**OBJECTIVE:** Recomplete from Morrow sand to Wolfcamp lime

**DIRECTIONS:** From the intersection of Hwy 82 and CR 222 (Shugart Rd) go south 8.2 miles on CR 222. Turn west on lease road for 0.4 miles. Turn south 0.5 miles to location.

**WELL DATA:**

Reference elevation: 3573' KB (20' AGL)

Correlation Log: EM Hobbs GR-CBL (11/26/05)

Casing: 13 3/8" @ 558'. Cmt'd to surface.  
8 5/8" 32# J55 @ 3505'. Cmt'd to surface.  
5 1/2" 17# P110 @ 12,295'. TOC @ 1100' by CBL. DV tool @ 9763'.

TD: 12,300'

PBTD: 12,253' (TCP guns w/ top @ 12,180')

Morrow perforations: 12,108' – 12,134', 11,948' – 11,960' 4 jspf. 48 shots

Bottom Packer (w 2 plugs in profile): 12,025'. Top of second plug – 12,045'

Top Packer : Arrowset 1X w o/o, 2.313" X nipple. Set in 20K↓ Nipple @ 11,820'

Tubing: 364 jts 2 7/8" P-110 6.5# tubing.

Tree - 5K Downing 2 9/16" double master valves, wing valve.

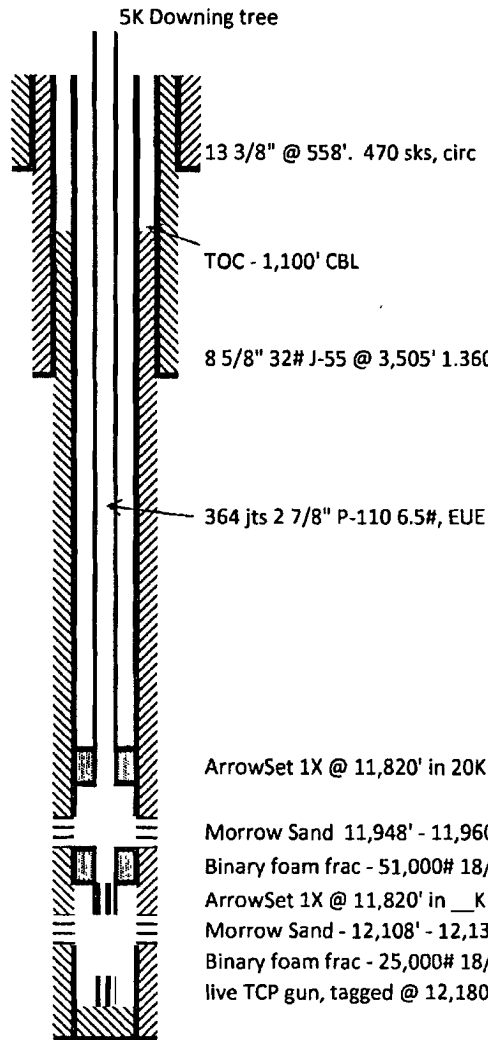
**Proposed perforations: 10,160' – 10,214'**

**PROCEDURE**

1. MIRU pulling unit. MIRU slick line truck. TIH w/ gauge ring to 2.313" ID X nipple @ 11,820'
2. TIH and set plug in X nipple.
3. Load tubing w/ 6% KCl containing 1 GPT Claymaster 5C. Test plug to 2000 psi.
4. Test annulus to 2000 psi. ND 5K Downing tree. Send to Midland shop for repairs, if necessary.
5. NU 5M hydraulic BOP and test annulus to 2000 psi.
6. Release on/off tool and spot 100 lbs sand on top of plug.
7. POOH. Strap tally out of hole.
8. MIRU wireline w/ full lubricator. Pressure test lubricator/BOP/casing/plug to 3,000 psi with fresh water.
9. Perforate Wolfcamp lime w/ 1 jspf from 10,160' – 10,214' ( 55 holes) –120° phasing - 3 1/8" slick gun – 0.42" EHD).
10. TIH w/ re-entry guide, 2 7/8" X 5 1/2" 10K packer w/ bottom half of on-off tool w/ 2.313" X nipple w/ plug in place. Set packer @ +/- 10,100'.
11. TIH w/ top half of on-off tool. Circulate top of plug clean.
12. Space out tubing to set packer in 16K compression. Place subs 1 jt below tubinghead.

- Downing**                      **Wellhead testing**                      **432-687-0778**

[illegible]



COG Operating LLC

# **Blue Thunder 4 Federal #1**

810' FSL, 660 FWL

Sec 4 T19S R31E

Eddy County, New Mexico

before

ArrowSet 1X @ 11,820' in 20K compression. o/o tool, 2.313" X nipple

Morrow Sand 11,948' - 11,960' 96 shots total

Binary foam frac - 51,000# 18/40 VersaProp 12/29/07

ArrowSet 1X @ 11,820' in \_\_K compression. o/o tool, TCP schematic in Midland wellfile

Morrow Sand - 12,108' - 12,134'

Binary foam frac - 25,000# 18/40 UltraProp 8/7/06

live TCP gun, tagged @ 12,180'

5 1/2" 17# P-110 @ 12,295' cement - 1,900 sks