

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-9720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

**State of New Mexico**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 18, 2013

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address <b>COG Operating LLC</b> <b>2208 West Main Street</b> <b>Artesia, NM 88210</b>		<sup>2</sup> OGRID Number <b>229137</b> <sup>3</sup> AD Number <b>30-015-42518</b>
<sup>4</sup> Property Code <b>313355</b>	<sup>5</sup> Property Name <b>Dump Yard 2 State</b>	<sup>6</sup> Well No <b>2H</b>

**<sup>7</sup> Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	2	21S	28E		190	South	1700	West	Eddy

**<sup>8</sup> Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
3	2	21S	28E		330	North	1700	West	Eddy

**<sup>9</sup> Pool Information**

<sup>9</sup> Pool Name <b>Fenton Bone Spring, Northeast</b>	<sup>10</sup> Pool Code <b>24310</b>
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**Additional Well Information**

<sup>11</sup> Work Type <b>New Well</b>	<sup>12</sup> Well Type <b>Oil</b>	<sup>13</sup> Cable/Rotary 	<sup>14</sup> Lease Type <b>State</b>	<sup>15</sup> Ground Level Elevation <b>3376.0'</b>
<sup>16</sup> Multiple <b>N</b>	<sup>17</sup> Proposed Depth <b>15076'</b>	<sup>18</sup> Formation <b>Bone Spring</b>	<sup>19</sup> Contractor 	<sup>20</sup> Spud Date <b>7/28/2014</b>
<sup>21</sup> Depth to Ground water 		<sup>22</sup> Distance from nearest fresh water well 		<sup>23</sup> Distance to nearest surface water 

☒ We will be using a closed-loop system in lieu of lined pits

**<sup>24</sup> Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	48	615	600	Surface
Intemd	12.25	9.625	36	2955	975	Surface
Production	8.75	7	29	7809		
Production	8.75	5.5	17	8629		
Production	7.875	5.5	17	15076	2100	2700

**Casing/Cement Program: Additional Comments**

Plan to drill a 17 1/2" hole to 615' with Fresh Water. Run 13 3/8" 48#, H40 csg and cmt to surface. Drill 12 1/4" hole to 2955' with Brine and run 9 5/8" 36# J55 csg and cement to surface. Drill 8 3/4" hole with cut Brine to 7809', reduce hole size to 7 7/8" and drill pilot hole to 8800'. Run openhole logs and plug back pilot hole to 7500' with 650 sks cement. Drill 8 3/4" vertical hole with cut Brine to 7809' kick off and drill curve to 8629' MD/8330' TVD. Reduce hole size and drill 7 7/8" lateral with cut Brine to approx. 15076' MD/8310' TVD. Run 7" 29#, P110 by 5 1/2" 17# P110 tapered casing string and cement to 2700'.

**<sup>25</sup> Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

<sup>26</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature: *Mayte Reyes*

Printed name: Mayte Reyes

Title: Regulatory Analyst

E-mail Address: mreyes1@concho.com

Date: 7/17/2014

Phone: 575-748-6945

**OIL CONSERVATION DIVISION**

Approved By:

*RR Dade*

Title:

*Dist # Supervisor*

Approved Date:

*7/23/2014*

Expiration Date:

*7/23/2016*

Conditions of Approval Attached

DISTRICT I  
1625 N. FRENCH DR., HOBBES, NM 88240  
Phone: (505) 363-6101 Fax: (505) 363-0720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 748-1883 Fax: (505) 748-0720

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87503  
Phone: (505) 476-3400 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-015- <b>42518</b>	Pool Code 24310	Pool Name Fenton; Bone Spring, Northeast
Property Code <b>313355</b>	Property Name DUMPYARD 2 STATE	Well Number 2H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3376.0'

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	21-S	28-E		190	SOUTH	1700	WEST	EDDY

**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
3	2	21-S	28-E		330	NORTH	1700	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
227.07			

**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**

**NAD 27  
PROPOSED BOTTOM  
HOLE LOCATION**  
Y=553581.1 N  
X=584273.2 E  
LAT.=32.521607° N  
LONG.=104.059921° W

**NAD 27  
SURFACE LOCATION**  
Y=546612.0 N  
X=584352.0 E  
LAT.=32.502449° N  
LONG.=104.059723° W

**OPERATOR CERTIFICATION**  
I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

*Mayte Reyes* 7-17-14  
Signature Date  
Mayte Reyes  
Printed Name  
mreyes1@concho.com  
E-mail Address

**SURVEYOR CERTIFICATION**  
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.

MAY 27, 2014  
Date of Survey  
Signature & Seal of Professional Surveyor  
  
Chad Harcrow 6/3/14  
Certificate No. CHAD HARCROW 17777  
W.O. # 14-454 DRAWN BY: AM

## Permit Conditions of Approval

API: 30-0

OCD Reviewer	Conditions
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

*Provide anticipated Directional Survey*