

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-4720

**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> UGRID Number <b>229137</b> <sup>3</sup> API Number <b>30-025-42146</b>	
<sup>4</sup> Property Code <b>35957 313731</b>	<sup>5</sup> Property Name <b>West Pearl 36 State Com</b>		<sup>6</sup> Well No <b>4H</b>

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

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	25	19S	34E		250	South	2180	East	Lea

**<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
O	36	19S	34E		330	South	1980	East	Lea

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

<sup>10</sup> Pool Name <b>Lea: Bone Spring</b>	<sup>11</sup> Pool Code <b>37570</b>
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**Additional Well Information**

<sup>12</sup> Work Type <b>New Well</b>	<sup>13</sup> Well Type <b>Oil</b>	<sup>14</sup> Cable/Rotary 	<sup>15</sup> Lease Type <b>State</b>	<sup>16</sup> Ground Level Elevation <b>3736.3'</b>
<sup>17</sup> Multiple <b>N</b>	<sup>18</sup> Proposed Depth <b>15956'</b>	<sup>19</sup> Formation <b>Bone Spring</b>	<sup>20</sup> Contractor 	<sup>21</sup> Spud Date <b>10/1/2014</b>
<sup>22</sup> Depth to Ground water 		<sup>23</sup> Distance from nearest fresh water well 		<sup>24</sup> Distance to nearest surface water 

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

**<sup>25</sup> Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	54.5	1850'	1150	
Intmid	12.25	9.625	36	3660'	750	
Production	8.75	5.5	17	15956'	2500	3460'

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 1850' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmx to surface. Drill 12-1/4" hole to 3660' with Brine, and run 9-5/8", 36# J55 and cement to surface. Drill 8-3/4" vertical & curve. Drill a 7-7/8" lateral with cut brine to approx 15,956' MD. Run 5-1/2", 17#, P-110 csg and cement to 3,460'.

**<sup>26</sup> Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Horn

<sup>27</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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: <i>Mayte Reyes</i> Printed name: <b>Mayte Reyes</b> Title: <b>Regulatory Analyst</b> E-mail Address: <b>mreyes1@concho.com</b> Date: <b>9/25/2014</b>	<p style="text-align: center;"><b>OIL CONSERVATION DIVISION</b></p> Approved By: <i>[Signature]</i> Title: <b>Petroleum Engineer</b> Approved Date: <b>09/26/14</b> Expiration Date: <b>09/26/16</b> Conditions of Approval Attached
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SEP 26 2014

DISTRICT I  
1020 N. FRONCE DR., HOBBS, NM 88240  
Phone: (505) 333-8181 Fax: (505) 333-0720

DISTRICT II  
511 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 740-1003 Fax: (505) 740-0720

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) 476-3400

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 30-025- <u>42146</u>	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 35957	Property Name WEST PEARL 36 STATE COM	Well Number 4H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3736.3'

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	25	19-S	34-E		250	SOUTH	2180	EAST	LEA

**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
0	36	19-S	34-E		330	SOUTH	1980	EAST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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**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**

<p>NAD 27 <u>SURFACE LOCATION</u> Y=591926.4 N X=752946.6 E LAT.=32.624621° N LONG.=103.511756° W</p> <p>NAD 27 <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=586730.5 N X=753190.8 E LAT.=32.610335° N LONG.=103.511094° W</p>		<p><b>OPERATOR CERTIFICATION</b> 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.</p> <p>Signature <u>Melanie J Parker</u> Date <u>9/25/14</u> Printed Name mparker@concho.com E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b> 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.</p> <p>AUGUST 4, 2014 Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor  Certificate No. CHAD HARCROW 17777 W.O. # 14-682 DRAWN BY: AM</p>
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