

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
611 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 COG Operating LLC 2208 West Main Street Artesia, NM 88210		<sup>2</sup> OGRID Number 229137	
		<sup>3</sup> API Number 30-025-42145	
<sup>4</sup> Property Code 35957 313731	<sup>5</sup> Property Name West Pearl 36 State Com		<sup>6</sup> Well No 3H

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

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	25	19S	34E		190	South	430	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
P	36	19S	34E		330	South	380	East	Lea

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

Lea: Bone Spring	Pool Name	Pool Code 37570
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**Additional Well Information**

<sup>11</sup> Work Type New Well	<sup>12</sup> Well Type Oil	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type State	<sup>15</sup> Ground Level Elevation 3734.3'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 15943'	<sup>18</sup> Formation Bone Spring	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 10/1/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

**<sup>21</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	1840'	1150	
Intrnd	12.25	9.625	36	3650'	750	
Production	8.75	5.5	17	15943'	2400	3450'

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 1840' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 3650' 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 15,943'MD. Run 5-1/2", 17#, P-110 csg and cement to 3,450'.

**<sup>22</sup> Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Horn

<sup>23</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>	<b>OIL CONSERVATION DIVISION</b> Approved By: <i>[Signature]</i>
Printed name: Mayte Reyes	Title: Petroleum Engineer
Title: Regulatory Analyst	Approved Date: 09/26/14 Expiration Date: 09/26/16
E-mail Address: mreyes1@concho.com	
Date: 9/25/2014 Phone: 575-748-6945	Conditions of Approval Attached

SEP 26 2014

DISTRICT I  
1625 N. FRENCH DR., ROSHS, NM 88240  
Phone: (575) 303-4181 Fax: (575) 303-0720

DISTRICT II  
811 S. PERRY ST., ARTESIA, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-0720

DISTRICT III  
1600 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6170 Fax: (505) 334-6170

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3466 Fax: (505) 476-3462

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-	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 35957	Property Name WEST PEARL 36 STATE COM	Well Number 3H
OGRD No. 229137	Operator Name COG OPERATING, LLC	Elevation 3734.3'

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	19-S	34-E		190	SOUTH	430	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
P	36	19-S	34-E		330	SOUTH	380	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**

**NAD 27 SURFACE LOCATION**  
Y=591886.5 N  
X=754696.6 E  
LAT.=32.624474° N  
LONG.=103.506073° W

**NAD 27 PROPOSED BOTTOM HOLE LOCATION**  
Y=586746.0 N  
X=754790.7 E  
LAT.=32.610343° N  
LONG.=103.505898° W

SECTION 25  
SECTION 36

Y=591686.3 N  
X=753807.3 E

Y=591701.4 N  
X=755128.3 E

Y=586406.9 N  
X=753853.0 E

Y=586419.7 N  
X=755173.5 E

S.L. 430' 180'

B.H. 380' 330'

PROJECT AREA PRODUCING AREA

HORIZ. DIST. - 5141.4  
CRID AZ - 178°57'05"

**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.

*Melanie J Parker* 9/25/14  
Signature Date  
Melanie J Parker  
Printed Name  
mparker@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.

AUGUST 4, 2014  
Date of Survey

Signature & Seal of Professional Surveyor

*Chad Harcrow* 8/20/14  
Certificate No. CHAD HARCROW 17777  
W.O. # 14-683 DRAWN BY: AM