

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

¹ Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		² UGRID Number 229137	
		³ API Number 30-025-42146	
⁴ Property Code 35957 313731	⁵ Property Name West Pearl 36 State Com		⁶ Well No 4H

7. 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

⁸ 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

9. Pool Information

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

¹¹ Work Type New Well	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3736.3'
¹⁶ Multiple N	¹⁷ Proposed Depth 15956'	¹⁸ Formation Bone Spring	¹⁹ Contractor	²⁰ 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

21. 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	
Intrmd	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'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Horn

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

SEP 26 2014

DISTRICT I
1025 N. FRONCH DR., HOBBS, NM 88240
Phone: (879) 283-8181 Fax: (879) 283-0720

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (879) 746-1083 Fax: (879) 746-0780

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3400 Fax: (505) 476-3468

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 30-025-42148	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 35957	Property Name WEST PEARL 36 STATE COM	
Well Number 4H	Operator Name COG OPERATING, LLC	
OGRID No. 229137	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

NAD 27 SURFACE LOCATION
Y=591926.4 N
X=752946.6 E
LAT.=32.624621° N
LONG.=103.511756° W

NAD 27 PROPOSED BOTTOM HOLE LOCATION
Y=586730.5 N
X=753190.8 E
LAT.=32.610335° N
LONG.=103.511094° 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 this division.

Signature: *Melanie J Parker* Date: 9/25/14
Printed Name: Melanie J Parker
E-mail Address: mparker@concho.com

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 L. HARCROW
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR
17777

Certificate No. CHAD HARCROW 17777
W.O. # 14-682 DRAWN BY: AM