

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

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

District III
1000 Rio Brazos Road, Artesia, 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 OGRID Number 229137
		³ API Number 70-025-42147
⁴ Property Code 35957 713731	⁵ Property Name West Pearl 36 State Com	
	⁶ Well No 5H	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	25	19S	34E		170	South	1770	West	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	36	19S	34E		330	South	1980	West	Lea

9. Pool Information

Pool Name	Pool Code
Lea: Bone Spring	37570

Additional Well Information

¹¹ Work Type New Well	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3734.1'
¹⁶ Multiple N	¹⁷ Proposed Depth 15840'	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	1880'	1200	
Intmid	12.25	9.625	36	3680'	750	
Production	8.75	5.5	17	15840'	2500	3480'

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1880' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 3680' 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 15,840' MD. Run 5-1/2", 17#, P-110 csg and cement to 3,480'.

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: 09/26/14 Expiration Date: 09/26/16 Conditions of Approval Attached	
---	--	--	--

SEP 26 2014

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 582-6161 Fax: (505) 582-0720

DISTRICT II
811 E. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1223 Fax: (505) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., ALBUQUERQUE, NM 87410
Phone: (505) 334-6170 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 & 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 30-025-42147	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 35957	Property Name WEST PEARL 36 STATE COM	Well Number 5H
OGHD No. 229137	Operator Name COG OPERATING, LLC	Elevation 3734.1'

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	25	19-S	34-E		170	SOUTH	1770	WEST	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
N	36	19-S	34-E		330	SOUTH	1980	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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 SURFACE LOCATION Y=591833.4 N X=751613.6 E LAT.=32.624394° N LONG.=103.516088° W</p> <p>Y=591659.5 N X=751165.9 E</p> <p>NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=586717.0 N X=751868.7 E LAT.=32.610326° N LONG.=103.515387° W</p> <p>Y=586379.9 N X=751212.1 E</p>		<p>SECTION 25 SECTION 36</p> <p>Y=591671.2 N X=752486.3 E</p> <p>Y=586394.1 N X=752532.5 E</p>	<p>OPERATOR CERTIFICATION</p> <p>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><i>Melanie J Parker</i> 9/25/14 Signature Date Printed Name mparker@concho.com E-mail Address</p> <p>SURVEYOR CERTIFICATION</p> <p>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 & Seal of Professional Surveyor</p> <p> Chad L. Hargrow 8/20/14 Certificate No. CHAD HARGROW 17777 W.O. # 14-655 DRAWN BY: AM</p>
--	--	--	--