

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, 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

Form C-101  
Revised December 16, 2011

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBS OCD

JUN 05 2012

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Permit

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

* Operator Name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		* OGRID Number 229137
		* API Number 30-025-38079
* Property Code 35957	* Property Name West Pearl 36 State	* Well No 1

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
F	36	19S	34E		1980	N	1740	W	Lea

8 Pool Information

Lea; Bone Spring	37570
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Additional Well Information

* Work Type P	* Well Type O	* Cable/Rotary N/A	* Lease Type S	* Ground Level Elevation 3716'
* Multiple No	* Proposed Depth	* Formation Morrow	* Contractor	* Spud Date ASAP
Depth to Ground water 75'	Distance from nearest fresh water well >1000		Distance to nearest surface water >1000	

19 Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17 1/2"	13 3/8"	48#	605'	In Place	0
Int	12 1/4"	9 5/8"	40#	5310'	In Place	0
Prod	8 3/4"	7"	26#	11100'	In Place	0
Liner	6 1/8"	4 1/2"	13.5#	10568-13656'	In Place	10568'

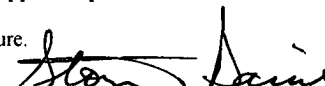

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

Permit Expires 2 Years From Approval  
Date Unless Drilling Underway

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		Plugback OIL CONSERVATION DIVISION	
Signature: 		Approved By: 	
Printed name: Stormi Davis		Title: PETROLEUM ENGINEER	
Title: Regulatory Analyst		Approved Date:	Expiration Date:
E-mail Address sdavis@concho.com		JUN 07 2012	
Date: 6/4/12	Phone: 575-748-6946	Conditions of Approval Attached	

JUN 07 2012

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-025-38079</b>		<sup>2</sup> Pool Code <b>37570</b>	<sup>3</sup> Pool Name <b>Lea; Bone Spring</b>
<sup>4</sup> Property Code <b>35957</b>	<sup>5</sup> Property Name <b>West Pearl 36 State</b>		<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>229137</b>	<sup>8</sup> Operator Name <b>COG Operating LLC</b>		<sup>9</sup> Elevation <b>3716' GR</b>

<sup>10</sup> Surface Location

UL or lot no. <b>F</b>	Section <b>36</b>	Township <b>19S</b>	Range <b>34E</b>	Lot Idn	Feet from the <b>1980</b>	North/South line <b>North</b>	Feet from the <b>1740</b>	East/West line <b>West</b>	County <b>Lea</b>
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<sup>11</sup> 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
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<sup>12</sup> Dedicated Acres <b>80</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<sup>16</sup> 	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division  Signature Date <b>6/4/12</b>	
	Stormi Davis Printed Name sdavis@concho.com E-mail Address	
<sup>18</sup> <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.	Date of Survey Signature and Seal of Professional Surveyor	
	REFER TO ORIGINAL PLAT Certificate Number	



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**West Pearl 36 St #1**  
**1,980' FNL & 1,740' FWL, Sec 36, T19S, R34E**  
**Lea County, New Mexico**  
**API # 30-025- 38079**

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**Delaware Recompletion Procedure:**

1. Test anchors. Set one frac tank for flowback.
2. Carefully check wellhead pressure. Potential for high shut in pressure. Keep H2S monitors on at all times. Blow down to frac tank. Use produced water for kill fluid.
3. MIRU WSU. ND wellhead. Send wellhead to Downing (Midland) for repair. Unload and tally 9,650' of N-80 2 7/8" tbg.
4. NU 5K hydraulic BOP (use 10KX5K spool). PU 6 1/8" bit and casing scraper. TIH to 9,620' Stand tbg back.
5. Wireline set CIBP @ 9,600' Bail 35' of cement on CIBP
6. Close BOP, load casing and test CIBP/casing/ BOP to 2,000 psi.
7. Perforate Delaware 2 jspf 120° phasing with 68 shots , in the following intervals:  
6,162'- 6,168'  
6,148'- 6,154'  
6,124'- 6,128'  
6,102'- 6,120'
8. TIH with packer and 2 jts tail pipe. Spot 4 bbls HCL. Reverse tbg and set pkr with EOT @ 6,050' Acidize Delaware with an additional 3,500 gallons 15% Iron Control HCl carrying 135 7/8" 1.3 SG ball sealers. Flush with 2% KCl. Attempt ballout.
9. Swab test as directed, report results to engineering.
10. Rls pkr & TOH w/ tbg.
11. Perforate Delaware 2 jspf 120° phasing with 42 shots , in the following intervals:  
5,960' – 5,972'  
5,976' – 5986'
12. TIH w/ RBP w/ ball catcher & treating pkr.
13. Set RBP @ 6,054' & PU 1 jt to set pkr. Test RBP to 2,000 psi.
14. Rls pkr & move pkr to bottom perf, spot 4 bbls HCL..
15. TOH to above top perf & reverse tbg 1 bbl wtr & set pkr.
16. Acidize Delaware with an additional 2,500 gallons 15% Iron Control HCl carrying 80 7/8" 1.3 SG ball sealers. Flush with 2% KCl. Attempt ballout.
17. Swab test as directed, report results to engineering.
18. Rls pkr & retrieve RBP. TOH standing back tbg, LD pkr & RBP.
19. RIH w/ forthcoming rod pumping BHA.