

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
MAY - 2 2008  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address COG OPERATING LLC 550 W. Texas, Suite 1300 Midland, TX 79701		<sup>2</sup> OGRID Number 299137
		<sup>3</sup> API Number 30-015-30727
<sup>4</sup> Property Code 302527	<sup>5</sup> Property Name Mesquite State	<sup>6</sup> Well No 5
<sup>9</sup> Proposed Pool 1 Empire; Glorieta-Yeso, East 96610		<sup>10</sup> Proposed Pool 2

**7 Surface Location**

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	20	17S	29E		1650	South	2310	West	Eddy

**8 Proposed 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

**Additional Well Information**

<sup>11</sup> Work Type Code D	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3621
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 5500	<sup>18</sup> Formation Yeso	<sup>19</sup> Contractor	<sup>20</sup> Spud Date As soon as approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
<input type="checkbox"/> Pit <input type="checkbox"/> Liner <input type="checkbox"/> Synthetic <input type="checkbox"/> _____mils thick <input type="checkbox"/> Clay <input type="checkbox"/> Pit Volume: _____bbls <input type="checkbox"/> Drilling Method: _____ <input type="checkbox"/> Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**21 Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	54	363	350	
12-1/4	8-5/8	24	823	425	
7-7/8	5-1/2	15.5	4313	750	
4-3/4	4	11.3	4150	115	

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. MIRU rig.
2. PU 4-3/4" bit and drill 4-3/4" from 4320' to 5500'.
3. POOH w/ bit and drillstring.
4. RIH w/ logs and log from TD to 4300'.
5. RIH w/ 4", 11.3# casing.
6. Cement casing from TD to 4200' w/ 115 sxs Class C cmt.
7. RDMO rig.

<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 the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

OIL CONSERVATION DIVISION	
Approved by <i>Jim W. Gunn</i>	
Title <i>District II Supervisor</i>	
Approval Date <i>5/12/08</i>	Expiration Date <i>5/12/10</i>
Conditions of Approval Attached <input type="checkbox"/>	

Printed name. Kanicia Carrillo  
Title: Regulatory Analyst  
E-mail Address: kcarrillo@conchoresources.com  
Date 05/01/08 Phone. 432-685-4332

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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

MAY - 2 2008  
OCD-ARTESIA

Form C-102  
Revised June 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies



☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-30727	<sup>2</sup> Pool Code 96610	<sup>3</sup> Pool Name Empire; Glorieta-Yeso, East
<sup>4</sup> Property Code 302527	<sup>5</sup> Property Name Mesquite State	<sup>6</sup> Well Number 5
<sup>7</sup> OGRID No. 229137	<sup>8</sup> Operator Name COG OPERATING LLC	<sup>9</sup> Elevation 3621

<sup>10</sup> Surface Location

UL or lot no. K	Section 20	Township 17S	Range 29E	Lot Idn	Feet from the 1650	North/South line South	Feet from the 2310	East/West line West	County Eddy
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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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature Kanicia Carrillo Printed Name Regulatory Analyst Title and E-mail Address 05/01/08 Date
	<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor
	Referred Original Survey Certificate Number