

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

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office
MAY - 2 2008
OCD-ARTESIA ☐ AMENDED REPORT

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

¹ Operator Name and Address COG OPERATING LLC 550 W. Texas, Suite 1300 Midland, TX 79701		² OGRID Number 299137
		³ API Number 30-015-30913
⁴ Property Code 302527	⁵ Property Name Mesquite State	⁶ Well No 4
⁹ Proposed Pool 1 Empire; Glorieta-Yeso, East 96610		¹⁰ 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
N	20	17S	29E		990	South	1650	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

¹¹ Work Type Code D	¹² Well Type Code O	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3627
¹⁶ Multiple N	¹⁷ Proposed Depth 5500	¹⁸ Formation Yeso	¹⁹ Contractor	²⁰ Spud Date As soon as approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
<input type="checkbox"/> Pit. Liner Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____				
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	48	367	350	
12-1/4	8-5/8	24	849	425	
7-7/8	5-1/2	17	4220	920	
4-3/4	4	11.3	4150	115	

²² 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 4241' to 5500'.
3. POOH w/ bit and drillstring.
4. RIH w/ logs and log from TD to 4200'.
5. RIH w/ 4", 11.3# casing.
6. Cement casing from TD to 4180' w/ 115 sxs Class C cmt.
7. RDMO rig.

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

Printed name Kanicia Carrillo		OIL CONSERVATION DIVISION	
Title Regulatory Analyst		Approved by <i>Jim W. Gurn</i> <i>District II Supervisor</i>	
E-mail Address: kcarrillo@conchoresources.com		Approval Date: 5/12/08	Expiration Date: 5/12/10
Date: 05/01/08	Phone: 432-685-4332	Conditions of Approval Attached <input type="checkbox"/>	

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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
S

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

¹ API Number 30-015-30913	² Pool Code 96610	³ Pool Name Empire; Glorieta-Yeso, East
⁴ Property Code 302527	⁵ Property Name Mesquite State	⁶ Well Number 4
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC	⁹ Elevation 3627

¹⁰ Surface Location

UL or lot no. N	Section 20	Township 17S	Range 29E	Lot Idn	Feet from the 990	North/South line South	Feet from the 1650	East/West line West	County Eddy
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¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

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