

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

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

NOV 10 2008

Form C-101  
May 27, 2004

OCD-ARTESIA  
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 30-015-28494
<sup>4</sup> Property Code 302497	<sup>5</sup> Property Name GJ West Coop Unit	<sup>6</sup> Well No 139
<sup>9</sup> Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no G	Section 28	Township 17S	Range 29E	Lot Idn	Feet from the 1650	North/South line North	Feet from the 1730	East/West line East	County Eddy
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<sup>8</sup> 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
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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 3566
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 5700	<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 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"/>				

<sup>21</sup> 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	142	250	
12-1/4	8-5/8	24	814	450	
7-7/8	5-1/2	17	4942	1144	
4-3/4	4	11.3	5700	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.

See Attachments

<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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name Kamacia Carrillo		Approved by <i>[Signature]</i> District II Supervisor	
Title Regulatory Analyst		Title	
E-mail Address kcarrillo@conchoresources.com		Approval Date 11/13/08 Expiration Date 11/13/10	

Date 11/07/08	Phone 432-685-4332	Conditions of Approval Attached <input type="checkbox"/>
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## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

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 <b>30-015-28494</b>	<sup>2</sup> Pool Code <b>97558</b>	<sup>3</sup> Pool Name <b>Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East</b>
<sup>4</sup> Property Code <b>302497</b>	<sup>5</sup> Property Name <b>GJ West Coop Unit</b>	
<sup>7</sup> OGRID No. <b>229137</b>	<sup>8</sup> Operator Name <b>COG OPERATING LLC</b>	<sup>6</sup> Well Number <b>139</b>
		<sup>9</sup> Elevation <b>3566</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>28</b>	<b>17S</b>	<b>29E</b>		<b>1650</b>	<b>North</b>	<b>1730</b>	<b>East</b>	<b>Eddy</b>

<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 <b>40</b>	<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> <b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature <b>Kanicia Carrillo</b> Printed Name <b>Regulatory Analyst</b> Title and E-mail Address <b>11/07/08</b> Date
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <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> Referred Original Plat Date of Survey Signature and Seal of Professional Surveyor
	Certificate Number

## Deepening Procedure

1. MIRU rig.
2. PU 4-3/4" bit and drill 4-3/4" from 4955' to 5700'.
3. POOH w/ bit and drillstring.
4. RIH w/ logs and log from TD to 5700'.
5. RIH w/ 4", 11.3# casing.
6. Cement casing from TD to 4473' w/ 115 sxs Class C cmt.
7. RDMO rig.

## Completion Procedure

1. MIRU rig.
2. RIH/ w/ perforating guns and perforate Yeso from 5700 – 5500 w/ 2 spf, 30 holes.
3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand. Set plug at 5550'.
4. RIH w/ perforating guns and perforate Yeso from 5400' – 5200'.
5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand. Set plug at 5150'.
6. RIH w/ perforating guns and perforate Yeso from 5100' – 5000'.
7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand.
8. RIH and drill out plug at 5150' and 5550'.
9. RIH and cut 4" casing at 4473'. POOH w/ 4" casing. Leave 4" liner from 4473' to 5700' (TD).
10. RIH w/ tbg and locate end of tbg at 4373'.
11. RIH w/ rods and pump.
12. RDMO rig.