

**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**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 18, 2013

AMENDED REPORT

HOBBS OGD  
NOV 21 2016  
RECEIVED

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

<sup>1</sup> Operator Name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		<sup>2</sup> OGRID Number 229137
		<sup>3</sup> API Number 30-025-43474
<sup>4</sup> Property Code 39623	<sup>5</sup> Property Name Lightning 1 State SWD	<sup>6</sup> Well No. 2

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
F	1	21S	33E		3780	S	2300	W	Lea

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

Pool Name SWD; Devonian-Silurian	Pool Code 97869
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**Additional Well Information**

<sup>11</sup> Work Type N	<sup>12</sup> Well Type SWD	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type S	<sup>15</sup> Ground Level Elevation 3782'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 16700	<sup>18</sup> Formation Siluro-Devonian	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date 12/1/16
Depth to Ground water 724'		Distance from nearest fresh water well >2300'		Distance to nearest surface water >1400'

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
Surf	26"	20"	133#	1800'	2000	0
Int	17 1/2"	13 3/8"	68#	5700'	2000	0
Prod	12 1/4"	9 5/8"	43.5#	11700'	1500	0
Liner	8 1/2"	7"	29#	11500-14975'	400	11500'

**Casing/Cement Program: Additional Comments**

Plan to drill a 26" hole to 1800' w/FW. Run 20" 133# K-55 csg and cmt to surface. Drill 17-1/2" hole to 5700' w/Brine, run 13-3/8" 68# L-80 csg and cmt to surface. Drill 12-1/4" hole to apprx 11700' w/cut brine. Run 9-5/8" 43.5# L-80 csg and cmt to surface. Drill 8-1/2" hole to apprx 14975' w/cut brine/mud, hang 7" 29# P-110 liner and cmt back to liner hanger. Drill 6-1/8" hole to apprx 16700' w/cut brine and leave it open hole for salt water disposal.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>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.</b> Signature: <i>Stormi Davis</i> Printed name: Stormi Davis Title: Regulatory Analyst E-mail Address: <a href="mailto:sdavis@concho.com">sdavis@concho.com</a> Date: 11/15/16 Phone: 575-748-6946	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: <i>[Signature]</i>	
	Title: <b>Petroleum Engineer</b>	
	Approved Date: 11/28/16	Expiration Date: 11/28/18
	Conditions of Approval Attached	