

District I
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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

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

¹ Operator Name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137 ³ API Number 30-025-43474
⁴ Property Code 39623	⁵ Property Name Lightning 1 State SWD	⁶ 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

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3782'
¹⁶ Multiple No	¹⁷ Proposed Depth 16700	¹⁸ Formation Siluro-Devonian	¹⁹ Contractor N/A	²⁰ 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

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 I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

Printed name: Stormi Davis

Title: Regulatory Analyst

E-mail Address: sdavis@concho.com

Date: 11/15/16

Phone: 575-748-6946

OIL CONSERVATION DIVISION

Approved By:

Title:

Petroleum Engineer

Approved Date: 11/28/16

Expiration Date: 11/28/18

Conditions of Approval Attached