District 1 1625 N. Freach Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr.			
Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u>				
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III				
1080 Rin Brazus Road, Aztee, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170				
<u>Histrict IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462	Santa Fc, NM 87505			
APPLICATION FOR	PERMIT TO DRILL, RE-ENTER, DEEPEN	, PLUGBACK, OR ADD A ZONE		
•	<sup>1</sup> Operator Name and Address	OGRID Number		
	COG Operating LLC 2208 West Main Street Artesia, NM 88210	229137 30-0/5-12453		
* Property College Le 19	<sup>3.</sup> Property Name Graham Nash State Com	<sup>0.</sup> Well No 5H		
	<sup>7</sup> Surface Location			

UL - Loi XX 4	Section 33	Township 26S	Range 28E	Lot kin	Feet from 280	N/S Line South	Feet From 760	E/W Line East	County Eddy
* Proposed Bottom Hole Location									
UL - Loi	Section	Tuwnship	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
^	28	26S	28E		330	North	660	East	Eddy

<sup>9.</sup> Pool Information

Pool Name

Hay Hollow: Bone Spring

Additional Well Information					
<sup>17</sup> Wark Type	<sup>12</sup> Well Type	11 Cable/Rotary	<sup>14</sup> Lease Type	13. Ground Level Elevation	
New Well	Oil		State	3057.5	
* Multiple	17 Proposed Depth	<sup>in</sup> Formation	<sup>19</sup> Contractor	<sup>20</sup> Spud Date	
N	14657*	Bone Spring		6/30/2014	
Depth to Ground water	Distance from	n nearest fresh water well	Distance to n	earest surface water	

Pool Code

30215

We will be using a closed-loop system in licu of lined pits

<sup>21.</sup> Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17,5	13,375	48	350'	350	
Intrmd	12.25	9.625	36	2560`	740	
Production	8.75	5.5	17	14657	2830	2260

## **Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to ~350' w/ fresh water spud mud. Run 13-3/8" 48# H40 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~2560' with saturated brine water. Run 9-5/8" 36# J55 LTC casing to TD and cement to surface in one stage.

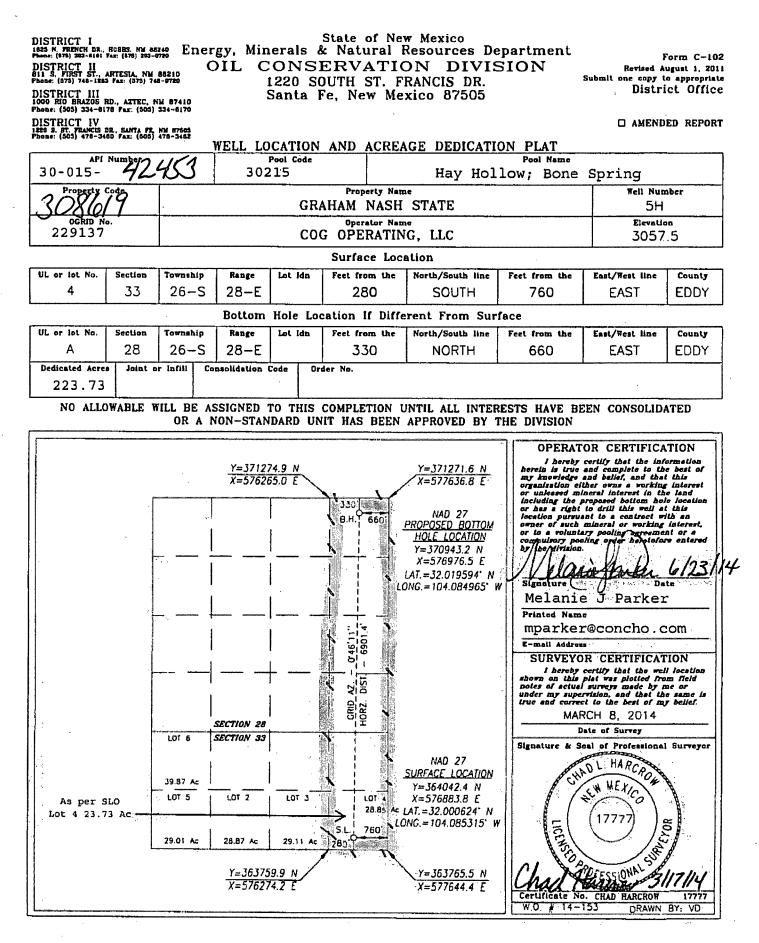
Drill 8-3/4" vertical hole, curve and lateral to 14657' with cut brine. Run 5-1/2" 17# P110 Tenaris TXP BTC casing to TD and cement in one stage bringing TOC to 2260' (300' overlap).

 <sup>22</sup> Proposed Blowout Prevention Program

 Type
 Working Pressure
 Test Pressure
 Manufacturer

 Double Ram
 3000
 3000
 Cameron

<sup>23.</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION		
I further certify that I have complied with 19.15.14.9 (A) NMAC $\boxtimes$ and/or 19.15.14.9 (B) NMAC $\boxtimes$ , if applicable. Signature: $[$	Approved By:		
Printed name: Mayte Reyes	Title: Geologist		
Title: Regulatory Analyst	Approved Date: 6-23-20 Expiration Date: 6-23-2016		
E-mail Address: mreyes ( @concho.com			
Date: 6/23/2014 Phone: 575-748-6945	Conditions of Approval Attached		



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