<u>District 1</u>
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
<u>District 11</u>
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax (575) 748-9720 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

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State of New Mexico

Form C-101 Revised July 18, 2013

OGRID Number

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

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

Operator Name and Address

COG Operating LLC 2208 West Main Street Artesia, NM 88210								229137 70-025-43490		
* Property Code				Property Name Columbus Fee				* Well No		
	152	8/		7. (Columbus Fe Surface Loca					24H
UL Lot	Section T	ownship	Range	Lot Idn	Feet from		Line	Feet From	E/W Line	County
B 34 255		33E				orth	2210°	East	Lea	
		*]	roposed Bot	tom Hole	Location					
UL - Lot O				Lot Idn Feet from 200'		N/S Line South		Feet From 2310'	E/W Line East	e County Lea
				9.	Pool Inform	ation				
Wildcat: Wolfcam	ip W	C-0	25 6-	09 5	2533	60;4	PPER	WOLFE	AUF	Pool Code 98094
		,		Additio	onal Well In					
Work Type New Well		Oil Oil			Rotary		ease Type State	'	15 Ground Level Elevation 3327'	
¹⁶ Multiple ¹⁷ 1		Proposed Depth 22,384			rmation lfcamp		19 Contractor		²⁰ Spud Date 11/20/2016	
Depth to Groun				ce from neare	st fresh water we					
We will be u	sing a closed-	loop system	in lieu of lined 21.		Casing and C	Cement Pro	ogram			
Type	Hole Si	ole Size Casing Size Casing Weight/ft				Setting Depth Sacks of Cer		ement	ment Estimated TOC	
Surface	13.5		10.75 45.5		5.5	1,025		700		
Intrmd 1	9.875		7.625	29.7		11,700		1000		
Production	Production 6.75		5.5	23		22,3	22,384')	11,000
					Program: Ad					
Drill 9-7/8" H	ole to ~11	700' with	diesel brine e	emulsion. F	Run 7-5/8" 29	9.7# P110 d	casing to Ti	and cement	to surfac	face in one stage. e in one stage. to 11,000' in one
stage.										
stage.			22. F	Proposed E	Blowout Prev	vention Pr	ogram			
stage.	Туре			orking Press		vention Pr	ogram Test Pressur	c		Manufacturer
stage.	Type Annular					vention Pr		e		Manufacturer Cameron
3. I hereby cer	Annular tify that the involedge and b	elief.	W given above is tn	3000	ete to the	vention Pro	Test Pressur 3000	o ONSERVAT	ION DI	Cameron
23. I hereby cer	Annular tify that the inveloge and b	clicf. e complied	given above is tn	3000	ete to the	Approved By	3000 OIL CO			Cameron
3. I hereby cer pest of my kno I further cert 19.15.14.9 (B) Signature:	Annular tify that the is wledge and b	elief. e complied if applicabl	given above is tn	3000	ete to the		3000 OIL CO			Cameron
3. I hereby cer best of my kno further certi 19.15.14.9 (B) Signature: Printed name:	Annular tify that the in wledge and b fy that I hav NMAC Mayte Reye	elief. e complied if applicabl	given above is tn	3000	ete to the	Approved By	OIL CO	ONSERVAT		Cameron VISION troleum Enginee
D. I hereby cer best of my kno I further certi 19.15.14.9 (B)	Annular tify that the it whedge and befy that I have NMAC Mayte Reyeltory Analyst	elief. e complied if applicable	given above is tn	3000	ete to the	Approved By	OIL CO	ONSERVAT	Pe	Cameron VISION troleum Enginee

Columbus Fee 24H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	13-1/2"	10-3/4"	45.5#	1,025'	700	0'
Intermediate	9-7/8"	7-5/8"	29.7#	11,700'	1000	0'
Production	6-3/4"	5-1/2"	23#	22,384'	2500	11,000'

Well Plan

Drill 13-1/2" hole to ~1025' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 STC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~11,700' with diesel brine emulsion. Run 7-5/8" 29.7# P110 casing to TD and cement to surface in one stage.

Drill 6-3/4" vertical hole, curve & lateral to 22,384' with OBM. Run 5-1/2" 23# P110 LTC casing to TD and cement to 11,000' in one stage.

Well Control

After setting 10-3/4" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi.

After setting 7-5/8" casing and installing 5000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 3000 psi and other BOP equipment to 5000 psi.