

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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 Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-8170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 221211

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

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 39603		3. API Number 30-015-43829
5. Property Name CADILLAC 15 STATE		6. Well No. 102H

7. Surface Location

UL - Lot	C	Section	22	Township	17S	Range	29E	Lot Idn	C	Feet From	330	N/S Line	N	Feet From	2125	E/W Line	W	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	C	Section	15	Township	17S	Range	29E	Lot Idn	C	Feet From	330	N/S Line	N	Feet From	1980	E/W Line	W	County	Eddy
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9. Pool Information

GJ;7RVS-QN-GB-GLORIETA-YESO	97558
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3558
16. Multiple N	17. Proposed Depth 9784	18. Formation Yeso Formation	19. Contractor	20. Spud Date 9/1/2016
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ 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	17.5	13.375	48	300	400	
Int1	12.125	9.625	40	850	500	0
Prod	8.75	7	29	9784	1500	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 300' w/fresh water mud system, wt 8.5, vis 28, set 13-3/8" casing and cement to surface. Drill a 12 1/4" hole to 850' w/br mud system, wt 10, vis 30, set 9 5/8" casing and cement to surface. Drill a 8 3/4" hole to 9784' w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 7" x 5 1/2" tapered casing string and cement to surface. Note: on production string, a caliper will be run, COG will attempt to circulate.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify 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. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 5/26/2016	Approved By: Karen Sharp Title: OCD Reviewer Approved Date: 6/23/2016 Conditions of Approval Attached
Phone: 432-683-7443	Expiration Date: 6/23/2018

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Form C-102
August 1, 2011
Permit 221211

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-43829	2. Pool Code 97558	3. Pool Name GJ,7RVS-QN-GB-GLORIETA-YESO
4. Property Code 39603	5. Property Name CADILLAC 15 STATE	6. Well No. 102H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3558

10. Surface Location

UL - Lot C	Section 22	Township 17S	Range 29E	Lot Idn C	Feet From 330	N/S Line N	Feet From 2125	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 15	Township 17S	Range 29E	Lot Idn C	Feet From 330	N/S Line N	Feet From 1980	E/W Line W	County Eddy
12. Dedicated Acres 160.00	13. Joint or Infill	14. Consolidation Code	15. 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

<table border="1" style="width: 100%; border-collapse: collapse; height: 150px;"> <tr><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px; background-color: #cccccc;"></td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> </table>																	<div style="text-align: center; font-weight: bold; margin-bottom: 10px;">OPERATOR CERTIFICATION</div> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 5/26/2016</p> <div style="text-align: center; font-weight: bold; margin-top: 10px;">SURVEYOR CERTIFICATION</div> <p><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></p> <p>Surveyed By: Robert Howett Date of Survey: 4/14/2016 Certificate Number: 19680</p>

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Form APD Comments

 Permit 221211

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-43829
		Well: CADILLAC 15 STATE #102H
Created By kholly1	Comment H2S concentrations of wells in the area from surface to TD are low enough that a contingency plan is not required.	Comment Date 5/18/2016

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Form APD Conditions

Permit 221211

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-43829
	Well: CADILLAC 15 STATE #102H

OCD Reviewer	Condition
kjones	Will require a directional survey with the C-104
kjones	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kjones	Cement is required to circulate on both surface and production strings of casing
kjones	Cement is required to circulate on both surface and intermediate1 strings of casing
kjones	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement.