

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 202593

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 313320		3. API Number 30-015-43034
5. Property Name BOSE IKARD 4 STATE COM		6. Well No. 021H

7. Surface Location

UL - Lot	D	Section	4	Township	17S	Range	29E	Lot Idn	4	Feet From	500	N/S Line	N	Feet From	150	E/W Line	W	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	A	Section	4	Township	17S	Range	29E	Lot Idn	1	Feet From	330	N/S Line	N	Feet From	330	E/W Line	E	County	Eddy
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9. Pool Information

EMPIRE; GLORIETA-YESO, EAST	96610
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3604
16. Multiple N	17. Proposed Depth 9166	18. Formation Yeso Formation	19. Contractor	20. Spud Date 7/5/2016
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	350	400	
Int1	12.25	9.625	40	900	400	0
Int2	8.75	7	29	4907	0	0
Prod	7.875	5.5	17	9166	1400	0

Casing/Cement Program: Additional Comments

COG proposes to drill an 17 1/2" hole to 350' with 8.5ppg, 28 viscosity fresh water system. Set 13 3/8" casing and cement to surface. Drill a 12 1/4" hole to 900' with a 10 ppg, 30 viscosity brine water mud system. Set 9 5/8" casing and cement to surface. Drill an 8 3/4" hole to and 4079' MD and kick off and drill an 8 3/4" curve to 4907' MD. Drill a 7 7/8" lateral to new BHL at 4526' TVD & 9166' MD. Run a tapered 7" 29# L-80 (0-4907') x 5 1/2" 17# L-80 (4907' - 9166') casing to TD cement to surface.

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 ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: _____ Printed Name: Electronically filed by Diane Kuykendall Title: Regulatory Analyst Email Address: dkuykendall@conchoresources.com Date: 4/8/2015	OIL CONSERVATION DIVISION Approved By: Randy Dade Title: District Supervisor Approved Date: 4/13/2015 Expiration Date: 4/13/2017 Conditions of Approval Attached
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Form C-102
August 1, 2011
Permit 202593

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-43034	2. Pool Code 96610	3. Pool Name EMPIRE; GLORIETA-YESO, EAST
4. Property Code 313320	5. Property Name BOSE IKARD 4 STATE COM	6. Well No. 021H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3604

10. Surface Location

UL - Lot D	Section 4	Township 17S	Range 29E	Lot Idn 4	Feet From 500	N/S Line N	Feet From 150	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot A	Section 4	Township 17S	Range 29E	Lot Idn	Feet From 330	N/S Line N	Feet From 330	E/W Line E	County Eddy
12. Dedicated Acres 159.86	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;"> <tr> <td style="width: 25%; height: 40px; text-align: center;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;"></td> </tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> </table>																	OPERATOR CERTIFICATION <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> E-Signed By: Diane Kuykendall Title: Regulatory Analyst Date: 4/8/2015 SURVEYOR CERTIFICATION <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> Surveyed By: Robert Howett Date of Survey: 3/12/2015 Certificate Number: 19680

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Form APD Comments

Permit 202593

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-43034
		Well: BOSE IKARD 4 STATE COM #021H
Created By	Comment	Comment Date
kholly1	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	4/8/2015

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Form APD Conditions

Permit 202593

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-43034
	Well: BOSE IKARD 4 STATE COM #021H

OCD Reviewer	Condition
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