

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(505) 393-8161 Fax:(505) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(505) 748-1283 Fax:(505) 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 233021

**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 317541		3. API Number 30-025-43697
5. Property Name WHITE FALCON 16 STATE COM		6. Well No. 012H

**7. Surface Location**

UL - Lot	D	Section	16	Township	25S	Range	35E	Lot Idn	D	Feet From	226	N/S Line	N	Feet From	852	E/W Line	W	County	Lea
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**8. Proposed Bottom Hole Location**

UL - Lot	M	Section	21	Township	25S	Range	35E	Lot Idn	M	Feet From	200	N/S Line	S	Feet From	1270	E/W Line	W	County	Lea
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**9. Pool Information**

WC-025 G-08 S2535340;BONE SPRING	97088
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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 3258
16. Multiple N	17. Proposed Depth 22333	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/23/2017
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	54.5	1150	700	
Int1	12.25	9.625	47	11700	1600	
Prod	8.5	5.5	23	22333	2600	11000

**Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to ~1150' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 BTC casing to TD and cement to surface in one stage. Drill 12-1/4" hole to ~11,700' with brine diesel emulsion WBM. Run 9-5/8" 47# HCL80 casing to TD and cement to surface in one stage. Drill 8-1/2" vertical hole, curve & lateral to 22,333' with OBM. Run 5-1/2" 23# P110 BTC casing to TD and cement to 11,000' in one stage.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	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 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:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 3/16/2017	Approved By: Paul Kautz Title: Geologist Approved Date: 3/16/2017 Conditions of Approval Attached
Phone: 432-683-7443	Expiration Date: 3/16/2019

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Form C-102  
August 1, 2011  
Permit 233021

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-43697	2. Pool Code 97088	3. Pool Name WC-025 G-08 S2535340;BONE SPRING
4. Property Code 317541	5. Property Name WHITE FALCON 16 STATE COM	6. Well No. 012H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3258

**10. Surface Location**

UL - Lot D	Section 16	Township 25S	Range 35E	Lot Idn D	Feet From 226	N/S Line N	Feet From 852	E/W Line W	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot M	Section 21	Township 25S	Range 35E	Lot Idn M	Feet From 200	N/S Line S	Feet From 1270	E/W Line W	County Lea
12. Dedicated Acres 320.00	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**

	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <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:                  3/16/2017</p>
	<p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <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:        Chad Harcrow  Date of Survey:     2/6/2017  Certificate Number: 17777</p>

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**Santa Fe, NM 87505**

Form APD Comments

Permit 233021

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-43697
	Well: WHITE FALCON 16 STATE COM #012H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 233021

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-43697
	Well: WHITE FALCON 16 STATE COM #012H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	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
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	Only Fresh Water and Air are Valid Drilling Fluids for Surface Casing
pkautz	Operator shall notify appropriate District office when setting conductor pipe.
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 20 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	Must notify OCD Hobbs Office of any water flows in the Salado Formation at 575-370-3186. Report depth and flow rate
pkautz	Must notify OCD Hobbs Office of any water flows in the Castile Formation at 575-370-3186. Report depth and flow rate
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.