

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 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) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**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 210563

**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
		3. API Number 30-025-42819
4. Property Code 39256	5. Property Name PAN HEAD FEE	6. Well No. 022H

**7. Surface Location**

UL - Lot D	Section 11	Township 17S	Range 32E	Lot Idn	Feet From 200	N/S Line N	Feet From 780	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot D	Section 14	Township 17S	Range 32E	Lot Idn D	Feet From 988	N/S Line N	Feet From 988	E/W Line W	County Lea
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**9. Pool Information**

MALJAMAR;YESO, WEST	44500
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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 4172
16. Multiple N	17. Proposed Depth 12296	18. Formation Yeso Formation	19. Contractor	20. Spud Date 12/30/2015
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	980	1000	
Int1	12.25	9.625	40	2300	750	0
Prod	8.75	7	29	5929	1700	0
Prod	7.875	5.5	17	12296	0	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill an 17 1/2" hole to 980' 8.5 ppg. 28 vis fresh water mud system. Set 13 3/8" casing and cement to surface. Drill a 12 1/4" hole to 2300' with a 10 ppg. 30 vis brine water mud system. Set 9 5/8" casing and cement to surface. Drill an 8 3/4" hole to 5929' MD and kick off and drill an 8 3/4" curve to 6450' TVD, 6747' MD. Drill an 8 3/4" lateral to new BHL @ 6450' TVD 12296' MD. Run a tapered string with 7" 29# L-80 from surface to 5929' & 5 1/2" 17# L-80 casing to TD and cement to surface.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>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.</b></p> <p>Signature:</p> <p>Printed Name: Electronically filed by Diane Kuykendall</p> <p>Title: Production Reporting Mgr</p> <p>Email Address: production@concho.com</p> <p>Date: 9/29/2015</p>	<p><b>OIL CONSERVATION DIVISION</b></p> <p>Approved By: Paul Kautz</p> <p>Title: Geologist</p> <p>Approved Date: 9/29/2015</p> <p>Expiration Date: 9/29/2017</p> <p>Conditions of Approval Attached</p>
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**Santa Fe, NM 87505**

Form C-102  
 August 1, 2011  
 Permit 210563

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-42819	2. Pool Code 44500	3. Pool Name MALJAMAR,YESO, WEST
4. Property Code 39256	5. Property Name PAN HEAD FEE	6. Well No. 022H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4172

**10. Surface Location**

UL - Lot D	Section 11	Township 17S	Range 32E	Lot Idn	Feet From 200	N/S Line N	Feet From 780	E/W Line W	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 200.00	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**

	<b>OPERATOR CERTIFICATION</b>
	<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: 9/29/2015</p>
	<b>SURVEYOR CERTIFICATION</b>
	<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: 6/15/2015          Certificate Number: 19680</p>

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Form APD Comments

Permit 210563

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-42819
		Well: PAN HEAD FEE #022H
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.	9/29/2015

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Form APD Conditions

Permit 210563

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-42819
	Well: PAN HEAD FEE #022H

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	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
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	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	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.