

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 210559

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 39256		3. API Number 30-025-42817
5. Property Name PAN HEAD FEE		6. Well No. 011H

7. Surface Location

UL - Lot	D	Section	11	Township	17S	Range	32E	Lot Idn	Feet From	195	N/S Line	N	Feet From	500	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	989	N/S Line	N	Feet From	330	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 4174
16. Multiple N	17. Proposed Depth 11697	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	5329	1700	0
Prod	7.875	5.5	17	11697	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 5329' MD and kick off and drill an 8 3/4" curve to 5850' TVD, 6147' MD. Drill an 8 3/4" lateral to new BHL @ 5850' TVD 11697' MD. Run a tapered string with 7" 29# L-80 from surface to 5329' & 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	

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: _____ Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 9/29/2015	<div style="text-align: center;">OIL CONSERVATION DIVISION</div> Approved By: Paul Kautz Title: Geologist Approved Date: 9/29/2015 Expiration Date: 9/29/2017 Conditions of Approval Attached
Phone: 432-683-7443	

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Form C-102
 August 1, 2011
 Permit 210559

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42817	2. Pool Code 44500	3. Pool Name MALJAMAR, YESO, WEST
4. Property Code 39256	5. Property Name PAN HEAD FEE	6. Well No. 011H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4174

10. Surface Location

UL - Lot D	Section 11	Township 17S	Range 32E	Lot Idn	Feet From 195	N/S Line N	Feet From 500	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

	<p style="text-align: center;">OPERATOR CERTIFICATION</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: 9/29/2015</p>
	<p style="text-align: center;">SURVEYOR CERTIFICATION</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: Robert Howett Date of Survey: 8/4/2015 Certificate Number: 19680</p>

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Form APD Comments

Permit 210559

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-42817
	Well: PAN HEAD FEE #011H

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 210559

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-42817
	Well: PAN HEAD FEE #011H

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	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
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.