

**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) 334-6178 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 139261

**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 38909		3. API Number 30-015-41666
5. Property Name SHERMAN "4" FEE		6. Well No. 006H

**7. Surface Location**

UL - Lot N	Section 4	Township 19S	Range 26E	Lot Idn N	Feet From 150	N/S Line S	Feet From 2260	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot C	Section 4	Township 19S	Range 26E	Lot Idn C	Feet From 330	N/S Line N	Feet From 2260	E/W Line W	County Eddy
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**9. Pool Information**

ATOKA;GLORIETA-YESO	3250
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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 3348
16. Multiple N	17. Proposed Depth 7630	18. Formation Yeso Formation	19. Contractor	20. Spud Date 11/30/2013
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000

☒ 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	11	8.625	32	1200	700	0
Prod	7.875	5.5	17	7630	800	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill an 11" hole to 1200' w/fresh water, run 8-5/8" 32# J-55 and cement to surface. Drill a 7-7/8" hole to 2556' MD and kick off and drill curve to 3075' TVD 3377' MD. Drill a 7-7/8" lateral to new BHL @ 3038' TVD 7630' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

**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: dkuykendall@conchoresources.com Date: 9/16/2013	<b>OIL CONSERVATION DIVISION</b>  Approved By: Randy Dade Title: District Supervisor Approved Date: 9/17/2013      Expiration Date: 9/17/2015 Conditions of Approval Attached
Phone: 432-683-7443	

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Form C-102  
August 1, 2011  
Permit 139261

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-41666	2. Pool Code 3250	3. Pool Name ATOKA;GLORIETA-YESO
4. Property Code 38909	5. Property Name SHERMAN "4" FEE	6. Well No. 006H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3348

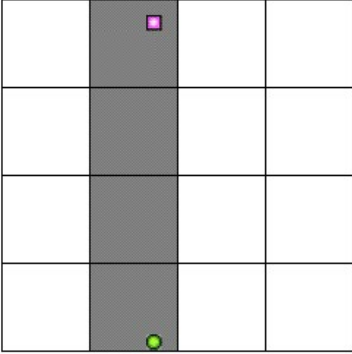
**10. Surface Location**

UL - Lot N	Section 4	Township 19S	Range 26E	Lot Idn	Feet From 150	N/S Line S	Feet From 2260	E/W Line W	County Eddy
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**11. Bottom Hole Location If Different From Surface**

UL - Lot C	Section 4	Township 19S	Range 26E	Lot Idn 3	Feet From 330	N/S Line N	Feet From 2260	E/W Line W	County Eddy
12. Dedicated Acres 159.06			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: 9/16/2013</p> <hr/> <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: Ronald Eidson Date of Survey: 11/20/2012 Certificate Number: 3239</p>
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Form APD Comments  
  
 Permit 139281

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-41666
		Well: SHERMAN "4" FEE #006H

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.	10/27/2011
kholly1	COG Operating LLC respectfully requests permission to drill this well with a closed loop system.	9/12/2013

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Form APD Conditions  
Permit 139281

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-41666
	Well: SHERMAN "4" FEE #006H
OCD Reviewer	Condition