District | 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

Manufacturer

				APPLICA	TION FOR I	PERMIT	TO DRILL	., RE-	ENTER, DEEPE	N, PLUGBA	ACK, OR AD	DAZC	ONE		
1. Operato		operation of the same of the s										2. OGI	RID Number 229137		
		Concho Co nd, TX 79										3. API	Number 30-015-4278	2	
4. Property	31386				5. Property Name Halb	erd 27 Sta	te					6. Wel	I No. 003H		
		5/8						7. Surf	ace Location	25	121		:8	32.	
JL - Lot	Н	Section	27	Township 1	7S Range	28E	Lot Idn		Feet From 2090	N/S Line	Feet Fro N	m 45	E/W Line	County	Eddy
							8. Propo	sed B	ottom Hole Locatio	on					
JL - Lot		Section		Township	Range		Lot Idn		Feet From	N/S Line	Feet From		E/W Line	County	
	E		27	17	S	28E		E	2310	N N	1	330	W		Eddy

9. Pool Information

RED LAKE; GLORIETA-YESO, NORTHEAST	96836

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		Private	3610
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	8450	Yeso Formation		1/30/2015
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

Type

Double Ram

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	0
Int1	12.25	9.625	40	900	400	1.5
Int2	8.75	5.5	17	4907	0	6000
Prod	7.875	5.5	17	8450	1400	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 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 3290' MD and kick off and drill an 8 3/4" curve to 4122' MD. Drill a 7-7/8" lateral to new BHL at 3698' TVD, 8450' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface.

22. Proposed Blowout Prevention Program

Working Pressure

2000

Test Pressure

2000

knowledge and	belief. I have complied with 19.15.14.9 (a	s true and complete to the best of my A) NMAC and/or 19.15.14.9 (B)		OIL CONSE	RVATION DIVISION
Printed Name:	Electronically filed by Diane Kuy	/kendall	Approved By:	Randy Dade	
Title:	Production Reporting Mgr	1800 100	Title:	District Supervisor	1.000
Email Address:	production@concho.com	29.4 (41.1 - 3.00 (41.1	Approved Date:	11/5/2014	Expiration Date: 11/5/2016
Date:	11/4/2014	Phone: 432-693-7443	Conditions of An	proval Attached	

District I

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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 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87605 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-102 August 1, 2011

rmit 194813

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-42782	96836	RED LAKE; GLORIETA-YESO, NORTHEAST
4. Property Code 313860	Property Name Halberd 27 State	6. Well No. 003H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3610

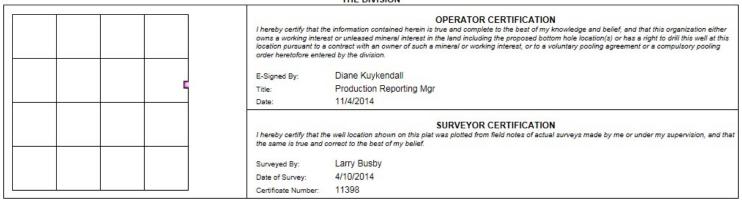
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Н	27	17S	28E		2090	N	45	E	Eddy

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 160.00			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



Form APD Comments

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 Phone:(575) 393-6161 Fax:(575) 393-0720 <u>District II</u>:
311 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u>:
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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 194813

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-015-42782
One Concho Center	Well:
Midland, TX 79701	Halberd 27 State #003H

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.	10/30/2014
CSHAPARD	Land s/S	11/5/2014

Form APD Conditions

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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 194813

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137]	API Number: 30-015-42782
One Concho Center Midland, TX 79701	Well: Halberd 27 State #003H

OCD Reviewer	Condition
CSHAPARD	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
Control of the Contro	water zone or zones and shall immediately set in coment the water protection string