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 198621

Manufacturer

PPLICATION FOR PERMI	TO DRILL, RE-ENTER	, DEEPEN, PLUGBACK	, OR ADD A ZONE
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		e and Address OPERATING LL	.C							2. OGRID Numb 229			
		Concho Center ind, TX 79701								3. API Number 30-0	25-42426	3	
4. Property	Code 3141	82		5. Property Name Petrus D) State					6. Well No. 018	Н		
						7. Sur	face Location						
UL - Lot	Р	Section 6	Township 17	Range 7S	33E	Lot Idn	Feet From 330	N/S Line S	Feet From 1:	50 E/W I	Line E	County	Lea
						8. Proposed E	Sottom Hole Locati	on					
JL - Lot	M	Section 6	Township 17	Range	33E	Lot Idn 7	Feet From 330	N/S Line S	Feet From 3	30 E/W L	.ine W	County	Lea
						9. Poo	Information						
	2 02	S173318N;YESC	1							0	7727		

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary 14. Lease Type 15. State		15. Ground Level Elevation 4224
16. Multiple N	17. Proposed Depth 10767	18. Formation Yeso Formation	19. Contractor	20. Spud Date 8/30/2015
Depth to Ground water		Distance from nearest fresh water well	6.0	Distance to nearest surface water

■ 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	54.5	1380	1000	0
Int1	12.25	9.625	40	2600	750	0
Int2	8.75	7	26	5629	1000	0
Prod	7.875	5.5	17	10767	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill an 17 1/2" hole to 1380' 8.5 ppg, 28 viscosity, fresh water mud system. Set 13 3/8" casing and cement to surface. Drill a 12 1/4" hole to 2600' with a 10 ppg, 30 viscosity brine water mud system. Set 9 5/8" casing and cement to surface. Drill 8 3/4" hole to 5629' MD and kick off and drill 8 3/4" curve to 6554' MD 6148' TVD. Drill a 7 7/8" lateral to new BHL at 6075' TVD 10,767' MD. COG will run 5 1/2" 17# L-80 LTC casing from surface to TD. 5 1/2" casing will be cemented in one stage with 1500 sks cement.

22. Proposed Blowout Prevention Program

Working Pressure

2000

Test Pressure

2000

knowledge and	belief. I have complied with 19.15.14.9	is 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 Ku	ykendall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	Title:	Geologist	9 555 YEAR STORE	
Email Address:	production@concho.com		Approved Date:	2/5/2015	Expiration Date: 2/5/2017
	2/4/2015	Conditions of Ap		·	

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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

Form C-102 August 1, 2011

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name	
30-025-42426	97727	WC-025 G-03 S173318N;YESO	
4. Property Code	5. Property Name	6. Well No.	
314182	Petrus D State	018H	
7. OGRID No.	8. Operator Name	9. Elevation	
229137	COG OPERATING LLC	4224	

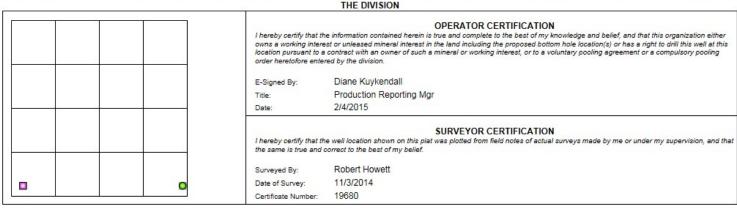
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Р	6	17S	33E		330	S	150	E	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot M	Section 6	Township 17S	Range 33E	Lot Idn	Feet From 330	N/S Line S	Feet From 330	E/W Line W	County Lea
12. Dedicated Acres 161.15			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



Form APD Comments

District | 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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Permit 198621

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42426
One Concho Center	Well:
Midland, TX 79701	Petrus D State #018H

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.	1/21/2015

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Permit 198621

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Num	ber:
COG OPERATING LLC [229137]		30-025-42426
One Concho Center	Well:	A NEW DATE OF THE STATE OF THE
Midland, TX 79701		Petrus D State #018H

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104
DMULL	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
DMULL	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERNEMIATE 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