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

Type

Double Ram

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

Permit 208776

APPLICATION FOR PERMIT	TO DRILL, RE-ENT	er, deepen, plugbac	K, OR ADD A ZONE

	APPL	ICATION F	FOR PERMIT	TO DRILL, RE	E-ENTER, DEEP	EN, PLUGBAC	K, OR ADD				
 Operator Name and Address COG OPERATII 	NG LLC							2. OGR	1D Number 229137		
One Concho Ce Midland, TX 797								3. APIN	lumber 30-025-42756		
4. Property Code 39256	***	5. Propert	ty Name PAN HEAD FE					6. Well	No. 023H		
				7. Su	rface Location						
UL - Lot Section	Township	178	Range 32E	Lot Idn C	Feet From 245	N/S Line N	Feet From 1	910	E/W Line W	County	Lea
				8. Proposed	Bottom Hole Local	tion					
UL - Lot Section	Township 14	178	Range 32E	Lot Idn C	Feet From 986	N/S Line N	Feet From 1	648	E/W Line W	County	Lea
				9. Po	ol Information						
MALJAMAR;YESO, WES	T			1 - 1 - 4 - 4	A STATE OF THE STATE OF				44500		
				Additiona	al Well Information	ì					
11. Work Type New Well	12. Well T	ype OIL	13. Cable	/Rotary		14. Lease Type Private	1	15. Ground	Level Elevation 4159		
16. Multiple 17. Proposed Depth N 12254			18. Form	18. Formation 19. Con Yeso Formation			19. Contractor 20. Spud Date 12/30/2015				
Depth to Ground water	z.		Distance	from nearest fresh	water well			Distance to	nearest surface wat	er	

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	0
Int1	12.25	9.625	40	2300	750	0
Prod	8.75	7	29	5829	1700	0
Prod	7.875	5.5	17	12254	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 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 viscosity 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 6747' MD 6450' TVD. Drill an 8 3/4" lateral to new BHL at 6450' TVD 12,254' MD. Run a tapered string with 7" 29# L-80 from surface to 5829' & 5 1/2" 17# L-80 casing to TD with and cement to surface.

22. Proposed Blowout Prevention Program

Working Pressure

2000

Test Pressure

2000

knowledge and b	I have complied with 19.15.14.9 (A) N	380		OIL CONSE	RVATION DIVISION
Printed Name:	Electronically filed by Diane Kuyken	dall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr		Title:	Geologist	1994.00
Email Address:	production@concho.com	19 c	Approved Date:	8/27/2015	Expiration Date: 8/27/2017
Date:	8/27/2015 Phone: 432-683-7443		Conditions of App	proval Attached	

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District III

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-102 August 1, 2011

Permit 208776

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-42756	44500	MALJAMAR;YESO, WEST
4. Property Code	5. Property Name	6. Well No.
39256	PAN HEAD FEE	023H
7. OGRID No. 229137	8. Operator Name	9. Elevation 4150

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	11	17S	32E	C	245	N	1910	W	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot	Section 14	Township 17S	Range 32E	Lot Idn C	Feet From 986	N/S Line N	Feet From 1648	E/W Line W	County Lea
12. Dedicated Acre 200.00			13. Joint or Infill		14. Consolidation Cod	e		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

75	THE DIVISION
owns a working in location pursuant	OPERATOR CERTIFICATION It the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either terest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling nitered by the division.
E-Signed By:	Diane Kuykendall
Title:	Production Reporting Mgr
Date:	8/27/2015
	SURVEYOR CERTIFICATION It the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that and correct to the best of my belief.
Surveyed By:	Robert Howett
Date of Survey:	6/16/2015
Certificate Numbe	r: 19680

Form APD Comments

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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 208776

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42756
One Concho Center	Well:
Midland, TX 79701	PAN HEAD FEE #023H

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.	8/18/2015

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 208776

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42756
One Concho Center	Well:
Midland, TX 79701	PAN HEAD FEE #023H

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 & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
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.