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

Manufacturer

Shaeffer

Permit 208957

APPLICATION FOR PERMIT	TO DRILL, RE	enter, Deepen,	PLUGBACK.	OR ADD A ZONE

COC	e and Address OPERATING LLC									ARREST.	RID Number 229137		
	Concho Center and, TX 79701		1111211111							3. AP	Number 30-025-42751		
4. Property Code 404		5	Property Name CUATR	O HIJOS	S FEE					6. We	II No. 002H		
					7. Su	rface Location	on						
UL - Lot O	Section 17	Township 198	Range	35E	Lot Idn O	Feet Fron	260	N/S Line S	Feet From	980	E/W Line	County	Lea
					8. Proposed	Bottom Hole	Location	n					
UL - Lot B	Section 17	Township 198	Range	35E	Lot Idn B	Feet From	330	N/S Line N	Feet From	980	E/W Line	County	Lea
					9. Po	ol Informatio	on						
SCHARB;BO	NE SPRING				1-1-1-1		1.10				55610		
					Additiona	Well Inform	nation						
11. Work Type New	Well	12. Well Type OIL	21	13. Cal	ble/Rotary		14. L	ease Type Private	15.	Groun	d Level Elevation 3823		
16. Multiple 17. Proposed Depth N 14346			18. Formation 19. Contractor Bone Spring			Contractor	20.	20. Spud Date 8/31/2015					
Depth to Ground water			Distance from nearest fresh water well Dist					Distance to nearest surface water					

Type

Double Ram

8/24/2015

Date

21 Droposed Casing and Coment Drogram

			Z I. FTOPOSCU Cusing	una cement riogiam		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1920	1100	100000000000000000000000000000000000000
Int1	12.25	9.625	36	3620	850	
Prod	8.75	5.5	17	14346	2250	

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~ (+/-) 1920' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~ (+/-) 3620' with saturated brine water. Run 9-5/8" 36# J55 LTC casing to TD and cement to surface in one stage. Drill 8-3/4" vertical hole, curve, and lateral to ~ (+/-) 14346' with cut brine. Run 5-1/2" 17# HCP110 LTC casing to TD and cement to surface in one stage.

> 22. Proposed Blowout Prevention Program Working Pressure

> > 3000

Phone: 432-683-7443

Test Pressure

3000

knowledge and I further certify NMAC ⊠, if app	I have complied with 19.15.14.9 (A) NMAC		OIL CONS	ERVATION DIVISION
Signature:		8	17.702 (10.802) [FB]	
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	Title:	Geologist	31/11/03/4
Email Address:	production@concho.com	Approved Date:	8/25/2015	Expiration Date: 8/25/2017

Conditions of Approval Attached

District I

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District II

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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 208957

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-42751	55610	SCHARB;BONE SPRING
4. Property Code 40474	Property Name CUATRO HIJOS FEE	6. Well No. 002H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3823

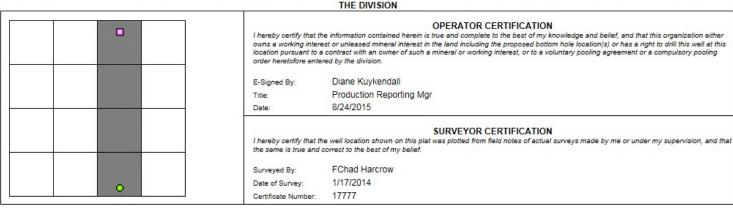
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	17	19S	35E	0	260	S	1980	E	Lea

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
В	17	198	35E	В	330	N	1980	E	Lea
12. Dedicated Acre 160.00			13. Joint or Infill		14. Consolidation Code	2		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

Permit 208957

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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 COMMENTS

Operator Name and Address: COG OPERATING LLC [229137]	API Number: 30-025-42751
One Concho Center	Well:
Midland, TX 79701	CUATRO HIJOS FEE #002H

Created By	Comment	Comment Date
	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	8/24/2015

Form APD Conditions

Permit 208957

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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 CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
COG OPERATING LLC [229137]	30-025-42751		
One Concho Center	Well:		
Midland, TX 79701	CUATRO HIJOS FEE #002H		

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	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