### District I

Surf

Prod

Date:

17.5

12.25

8.75

Type

Double Ram

11/20/2014

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

13.375

9.625

# 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 195841

APPLICATION FOR REDMIT TO DRILL BE ENTED DEEDEN DILICRACK OR ADD A ZONE

VI			AFFLICA	ATIONFORT	EKIVIII	ODKILL	, RE-	EN IER, DEEPE	IN, FLUGBA	JN, UK ADI	DAZU	INC		
Midland, TX 79701   30-025-42276   6. Well No.   003H	COG	OPERATING LLC									2. OGF			
CUATRO HIJOS FEE   003H											3. API			
Section   17   Township   19S   Range   35E   Lot Idn   Feet From   190   N/S Line   S   Feet From   1980   E/W Line   W   County						S FEE								
N						7	. Sur	face Location						
Section   17   Township   19S   35E   Lot Idn   C   Feet From   330   N/S Line   N   Feet From   1980   E/W Line   County						Lot Idn					1980		County	Lea
C   17   198   35E   C   330   N   1980   W						8. Propo	sed E	Bottom Hole Locati	on					
Additional Well Information    1. Work Type						Lot Idn	С				1980		County	Lea
Additional Well Information  1. Work Type New Well OIL 13. Cable/Rotary 14. Lease Type Private 3842  6. Multiple Now Well 15. Proposed Depth Bone Spring 19. Contractor 20. Spud Date 11/27/2014  Distance from nearest fresh water well Distance to nearest surface water				•		9	). Poc	Information	•	•			•	
1. Work Type New Well OIL 13. Cable/Rotary 14. Lease Type Private 3842  6. Multiple N 15505 18. Formation Bone Spring 19. Contractor 20. Spud Date 11/27/2014  Distance from nearest fresh water well Distance to nearest surface water	CHARB;BON	NE SPRING						Sandal de la constitución de la				55610		
New Well OIL Private 3842  6. Multiple 17. Proposed Depth 18. Formation 19. Contractor 20. Spud Date 17. Proposed Depth Bone Spring 19. Contractor 17. Proposed Depth 15505 Bone Spring Distance from nearest fresh water well Distance to nearest surface water						Addi	tional	Well Information						
N 15505 Bone Spring 11/27/2014  Depth to Ground water Distance from nearest fresh water well Distance to nearest surface water		Well			13. Cat	ole/Rotary		14.		1				
				18. For				19. Contractor						
We will be using a closed loop system in liqu of lined nits	epth to Ground	water			Distanc	e from neares	st fresh	water well		D	istance to	nearest surface wate	Γ	
21. Proposed Casing and Cement Program  Tune Hole Size Casing Size Casing Meliability Setting Denth Sacks of Cement Estimated T					21		d Cas				1942 00		20035-0 000-0	JAN X

# Casing/Cement Program: Additional Comments

54.5

3000

Phone: 432-683-7443

1940

3570

15505

Conditions of Approval Attached

1170

950

2730

Manufacturer

Shaeffer

Test Pressure

3000

Drill 17-1/2" hole to ~1940' 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 ~3570' 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 15505' 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

knowledge and I further certify NMAC ⊠, if app	I have complied with 19.15.14.9 (A) NMAC		OIL CONS	ERVATION DIVISION
Signature:		8		
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	Title:	Geologist	The state of the s
Empil Address:	production@concho.com	Approved Date:	11/20/2014	Evaluation Date: 11/20/2016

District I

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

District II

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District III

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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

ermit 195841

### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-42276	55610	SCHARB;BONE SPRING
4. Property Code	5. Property Name	6. Well No.
40474	CUATRO HIJOS FEE	003H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3842

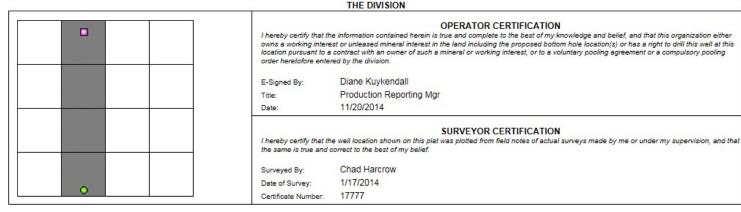
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	17	198	35E		190	S	1980	W	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 17	Township 19S	Range 35E	Lot Idn	Feet From 330	N/S Line N	Feet From 1980	E/W Line W	County Lea
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



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 III</u>
311 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District IIII</u>
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</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 195841

## PERMIT COMMENTS

Operator Name and Address:	API Number:		
COG OPERATING LLC [229137]	30-025-42276		
One Concho Center	Well:		
Midland, TX 79701	CUATRO HIJOS FEE #003H		

Created By	Comment	Comment Date
mreyes1	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.	11/20/2014

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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 195841

## PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
COG OPERATING LLC [229137]	30-025-42276		
One Concho Center	Well:		
Midland, TX 79701	CUATRO HIJOS FEE #003H		

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