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 191305

Manufacturer

Shaeffer

1. Operato		e and Addres OPERATI								2.	OGRID Number 229137		
		Concho Ce and, TX 797								3.	API Number 30-025- 4 2068	3	
4. Propert	y Code 3102				5. Property Name PYG	MY 27 STA	ΙΤΕ			6.	Well No. 003H		
		: 62			187		7. Sur	face Location	53	37.5	5.12	318	
UL - Lot	В	Section	27	Township 2	1S Range	33E	Lot Idn	Feet From 190	N/S Line N	Feet From 1980	E/W Line	County	Lea
							8. Proposed E	Bottom Hole Locati	on				
UL - Lot		Section		Township	Range		Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	1
	0		27	2	1S	33E	0	330	S	198	D E		Lea

WC-025 G-00 52 15325D, BONE SFRING	91929	
WC-025 G-06 S213323D:BONE SPRING	97929	

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lesse Type State	15. Ground Level Elevation 3755
16. Multiple N	17. Proposed Depth 15557	18. Formation Bone Spring	19. Contractor	20. Spud Date 8/30/2014
Depth to Ground water		Distance from nearest fresh water well	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	1850	1250	
Int1	12.25	9.625	40	5650	2210	Orac with the
Prod	8.75	5.5	17	15557	2220	5350

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1850' 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 bill 11-1/2 lose of 100 will est an one of 100 with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5650" with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval to TD and cement to 5350' (300' overlap) in one stage.

22. Proposed Blowout Prevention Program

Working Pressure

3000

Test Pressure

3000

knowledge and I	I have complied with 19.15.14.9 (A)			OIL CONSI	ERVATION DIVISION
Printed Name:	Electronically filed by Diane Kuyke	ndall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	7	Title:	Geologist	
Email Address:	dkuykendall@conchoresources.co	Approved Date:	8/26/2014	Expiration Date: 8/26/2016	
Date:	8/21/2014	Phone: 432-683-7443	Conditions of Approval Attached		

District I

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District II

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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 191305

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42068	2. Pool Code 97929	3. Pool Name WC-025 G-06 S213323D;BONE SPRING
4. Property Code 310282	5. Property Name PYGMY 27 STATE	6. Well No. 003H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3755

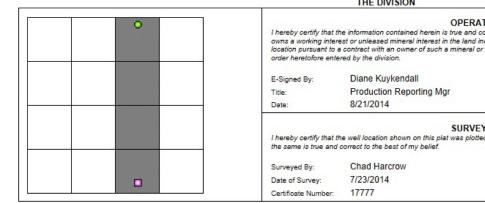
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
В	27	21S	33E		190	N	1980	E	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot O	Section 27	Township 21S	Range 33E	Lot Idn O	Feet From 330	N/S Line S	Feet From 1980	E/W Line	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 THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling agreement or the division.

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my heliaf

Form APD Comments

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

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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 191305

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42068
One Concho Center	Well:
Midland, TX 79701	PYGMY 27 STATE #003H

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.	8/21/2014
DMULL	OCD Hobbs office received response letters from BLM & SLO. Letters scanned to well file.	8/26/2014

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Permit 191305

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42068
One Concho Center	Well:
Midland, TX 79701	PYGMY 27 STATE #003H

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	This well location is in the POTASH AREA. This requires response from the Bureau of Land Management and the State Land Office. Notice letter advising them of this APD has been sent by OCD Hobbs office.
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