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District IV
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State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

NOV 18 2013

RECEIVED

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address COG Operating LLC One Concho Center 600 W Illinois Ave Midland, TX 79701		² OGRID Number 229137
		³ API Number 30-025-40821
⁴ Property Code 39507	⁵ Property Name Hickory 14 State	⁶ Well No 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	14	17S	35E		990	North	990	East	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name Vacuum; Grayburg-San Andres	Pool Code 62180
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Additional Well Information

¹¹ Work Type P	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3930
¹⁶ Multiple N	¹⁷ Proposed Depth	¹⁸ Formation San Andres	¹⁹ Contractor	²⁰ Spud Date
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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC

Casing/Cement Program: Additional Comments

Original casing program will remain the same.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature:		OIL CONSERVATION DIVISION	
Printed name: Kanicia Castillo		Approved By:	
Title: Lead Regulatory Analyst		Title: Petroleum Engineer	
E-mail Address: kcastillo@concho.com		Approved Date:	
Date: 11/14/13		Expiration Date:	
Phone: 432-685-4332		NOV 19 2013	
Conditions of Approval Attached			

9 2013

Hickory 14 St # 1 - San Andres Completion Procedure

- ND WH and NU and Function/Pressure Test BOP
- POOH w/ 2-7/8" and ESP Tubing (lay it down and send it for inspection and testing)
- RU Wireline and set 5-1/2" Composite Plug @ 6,420 ft. and test as per State and company requirements.
- Perforate: 4,886 - 5,138 ft. 2 SPF 8 ft. spacing (40 holes)

Perf #	Depth	SPF
1	5140	2/SPF
2	5132	2/SPF
3	5124	2/SPF
4	5116	2/SPF
5	5092	2/SPF
6	5084	2/SPF
7	5076	2/SPF
8	5068	2/SPF
9	5052	2/SPF
10	5044	2/SPF
11	5036	2/SPF
12	5014	2/SPF
13	5006	2/SPF
14	4998	2/SPF
15	4990	2/SPF
16	4982	2/SPF
17	4910	2/SPF
18	4902	2/SPF
19	4894	2/SPF
20	4886	2/SPF

- RU Acid and spot 6 bbls across the perfs.
- Pump 6,500 gals of 20% HCL flushed w/ 120 of fresh water.
 - Record Rate, pressures and FG, and report to engineer
- Dump 15 gals of 15% HCL acid across perfs.
- Frac job (Rigless) Stage 1: 4,866,'-5,138' (254' , Premium White 20/40 -20# XL) – San Andres Target rate of 80 BPM.
- Flowback well
- RU, ND Frac Valve and NU BOP and RIH w/ 2-7/8" Prod. Tbg. and 4-3/8" bit to tag for fill and cleanout to PBTD @ 6,420 ft.
- POOH w/ Tbg and bit
- RBIH w/ prod. tbg and ESP equipment.
- Turn well to production.
- Test well in San Andres zone for 2 months
- Plan to drill out composite bridge plug and commingle with existing Yeso pay zone after testing San Andres pay zone.