

District I
1025 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address COG OPERATING LLC 550 W. Texas, Suite 1300 Midland, TX 79701		⁴ OGRID Number 299137
		² API Number 30 - 15-32226
³ Property Code 016397	⁵ Property Name State S-19	⁶ Well No. 22
⁹ Proposed Pool 1 Empire; Glorieta-Yeso 96210		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	17S	29E		1650	South	840	East	Eddy

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code D	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3660
¹⁶ Multiple No	¹⁷ Proposed Depth 5500	¹⁸ Formation Yeso	¹⁹ Contractor	²⁰ Spud Date As soon as approved
Depth to Groundwater 150		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 5000 bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	336	325	
12 1/4	9 5/8	24	815	475	
7 7/8	5 1/2	17	4399	960	
4 3/4	4	11.3	5500	100	4375
	2 7/8 & 2 3/8		5400		

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

COG Operating proposes to deepen this Yeso well in the Yeso formation:

- MIRU rig. PU 4-3/4" bit & drill 4-3/4" hole w/ 2% KCl from 4399' - 5500'.
- RIH w/ logs & log from TD to 4000'.
- Run 4" 11.3# casing set @ 5500'. Cement csg w/ 100 sx C from TD to 4375'.
- Perf Yeso intervals as dictated by log shows. Frac w/ gelled water and sand..
- Cut off 4" casing @4375' and POOH
- RIH w/ tbg. EOT @ 5400'. RIH w/ rods & pump.
- Restore well to production producing from all zones.

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 the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OGD-approved plan ☐.

Printed name: Kanicia Carrillo

Title: Regulatory Analyst

E-mail Address: kcarrillo@conchoresources.com

Date: 12/12/07

Phone: 432-685-4332

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARRANT
DISTRICT II GEOLOGIST

Title:

Approval Date: FEB 14 2008

Expiration Date: FEB 14 2010

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-32226		² Pool Code 96210	³ Pool Name Empire, Glorieta-Yeso
⁴ Property Code 16394	⁵ Property Name State S-19		⁶ Well Number 22
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC		⁹ Elevation 3660'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature Kanicia Carrillo Printed Name Regulatory Analyst Title and E-mail Address 12/28/07 Date
	¹⁸ SURVEYOR CERTIFICATION <i>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 belief</i> (Referred Original Survey) Date of Survey Signature and Seal of Professional Surveyor.
	Certificate Number