

District I
1625 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		² OGRID Number 299137	
³ Property Code 23810		⁴ API Number 30-15-32159	
⁵ Property Name Mesquite State		⁶ Well No. 12	
⁹ Proposed Pool 1 Empire ; East Yeso 96610		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
N	20	17S	29E		910	South	2310	West	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 Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3617 GR
¹⁶ Multiple N	¹⁷ Proposed Depth 5450	¹⁸ Formation Yeso	¹⁹ Contractor	²⁰ Spud Date As soon as approved
Depth to Groundwater 115		Distance from nearest fresh water well >1000		Distance from nearest surface water >1000
Pit Liner. Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/>		Pit Volume. 5000 bbls		
Closed-Loop System <input type="checkbox"/>		Drilling Method. 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	368	375	Surface
12 1/4	8 5/8	40	821	500	Surface
7 7/8	5 1/2	17	4327	905	
	4	11 3	5450	115	4250
	2 7/8 tbg	5350			

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/ cut brine from 4315' - 5450'.
- RIH w/ logs & log from TD to 4300'.
- Run 4" 11.3# casing set @ 5450'. Cement csg w/ 115 sx C from TD to 4300'.
- Perf Yeso @ 5100' - 5300', 2 SPF, 30 holes & acidize w/ 2500 gallons acid. Frac w/ 72,200# sand.
- Set plug @ 4990'.
- Perf Yeso @ 4700' - 4900', 2 SPF, 30 holes & acidize w/ 2500 gallons acid. Frac w/ 72,200# sand.
- Drill out plug @ 4990'. Cut 4" csg @ 4250'. POH w/ 4" csg. Leave 4" liner from 4250' to 5450' TD.
- RIH w/ tbg. EOT @ 5350'. RIH w/ rods & pump.
- Restore well to production producing from 3892' - 4197.5' and 4700' - 5300'.

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 OCD-approved plan ☐.

Printed name. Kanicia Carrillo
Title. Regulatory Analyst
E-mail Address. kcarillo@conchoresources.com
Date. 10/29/07 Phone. 432-685-4332

OIL CONSERVATION DIVISION

Approved by

BRYAN G. ARANT

Title

DISTRICT II GEOLOGIST

Approval Date.

OCT 30 2007

Expiration Date.

OCT 30 2008

Conditions of Approval Attached ☐

Perfs down to base of
yes only B20

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-15-32159	Pool Code 96610	Pool Name East Empire Yeso
Property Code 23810	Property Name MESQUITE STATE	Well Number 12
OGRID No. 299137	Operator Name COG Operating	Elevation 3617

Surface Location

UL or lot No. N	Section 20	Township 17 S	Range 29 E	Lot Idn	Feet from the 910	North/South line SOUTH	Feet from the 2310	East/West line WEST	County EDDY
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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
Dedicated Acres 40		Joint or Infill	Consolidation Code	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature</p> <p>Crissa D. Carter</p> <p>Printed Name</p> <p>Production Analyst</p> <p>Title</p> <p>1/9/2002</p> <p>Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>DECEMBER 26, 2001</p> <p>Date Surveyed LMP</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>01-11-1333</p> <p>Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641</p>