

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

OCT 17 2008

Form C-101

May 27, 2004

OCD-ARTESIA

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 302497	⁴ Property Name GJ West Coop Unit	⁵ API Number 30-015-25610
⁹ Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East		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	21	17S	29E		990	South	2303	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 3590'
¹⁶ Multiple N	¹⁷ Proposed Depth 5700	¹⁸ Formation Yeso	¹⁹ Contractor	²⁰ Spud Date As soon as approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner. Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method _____ Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input 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	54.5	337	150	
12-1/4	8-5/8	24	754	550	
7-7/8	5-1/2	17	4424	1200	4000'
4-3/4	4	11.3	5700	115	

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

See Attachment

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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Kanicia Carrillo <i>K. Carrillo</i>		Approved by: <i>Jim W. Brown</i>	
Title: Regulatory Analyst		Title: District II Supervisor	
E-mail Address: kcarrillo@conchoresources.com		Approval Date: 10/20/08 10/20/10	

Date: 10/16/08	Phone 432-685-4332	Conditions of Approval Attached <input checked="" type="checkbox"/>
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NOTE: TIE BACK ON PRODUCTION CSC.



GJ West Coop Unit #82

Deepening Procedure

1. MIRU rig.
2. PU 4-3/4" bit and drill 4-3/4" from 4460' to 5700'.
3. POOH w/ bit and drillstring.
4. RIH w/ logs and log from TD to 5700'.
5. RIH w/ 4", 11.3# casing.
6. Cement casing from TD to 4305' w/ 115 sxs Class C cmt.
7. RDMO rig.

Completion Procedure

1. MIRU rig.
2. RIH/ w/ perforating guns and perforate Yeso from 5700 – 5500 w/ 2 spf, 30 holes.
3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand. Set plug at 5550'.
4. RIH w/ perforating guns and perforate Yeso from 5400' – 5200'.
5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand. Set plug at 5150'.
6. RIH w/ perforating guns and perforate Yeso from 5100' – 5000'.
7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 180,000 # of sand.
8. RIH and drill out plug at 5150' and 5550'.
9. RIH and cut 4" casing at 4305'. POOH w/ 4" casing. Leave 4" liner from 4305' to 5700' (TD).
10. RIH w/ tbg and locate end of tbg at 4205'.
11. RIH w/ rods and pump.
12. RDMO rig.

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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 30-015-25610	² Pool Code 97558	³ Pool Name Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East
⁴ Property Code 302497	⁵ Property Name GJ West Coop Unit	
		⁶ Well Number 82
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC	
		⁹ Elevation 3590

¹⁰ Surface Location									
UL or lot no. N	Section 21	Township 17S	Range 29E	Lot Idn	Feet from the 990	North/South line South	Feet from the 2303	East/West line West	County Eddy

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.			

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>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature Kanicia Carrillo</p> <p>Printed Name Regulatory Analyst</p> <p>Title and E-mail Address 10/16/08</p> <p>Date</p>
	<p>¹⁸ 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 belief</p> <p>Referred Original Plat</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>
	<p>Certificate Number</p>