

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

Energy Minerals and Natural Resources

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

Operator Name and Address COG OPERATING LLC 550 W. Texas, Suite 1300 Midland, TX 79701		OGRID Number 299137
Property Code 302527		APT Number 30-015-30941
Property Name Mesquite State		Well No. 9
Proposed Pool 1 Empire; Glorieta-Yeso, East		Proposed Pool 2

Surface Location

U/L or lot no D	Section 20	Township 17S	Range 29E	Lot Idn	Feet from the 890	North/South line North	Feet from the 480	East/West line West	County Eddy
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Proposed Bottom Hole Location If Different From Surface

U/L 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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Additional Well Information

Work Type Code D	Well Type Code O	Cable/Rotary Rotary	Lease Type Code S	Ground Level Elevation 3652
Multiple N	Proposed Depth 5425	Formation Blinberry	Contractor	Spud Date As soon as approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
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"/>				

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	362	350	
12-1/4	8-5/8	24	815	425	
7-7/8	5-1/2	17	4267	945	
4-3/4	4	11.3	5050	100	
	2-7/8 tbg		4650		

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

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 ☐.

OIL CONSERVATION DIVISION

Approved by:

Printed name: Kanicia Carrillo

Title:

Title: Regulatory Analyst

Approval Date:

E-mail Address: kcarrillo@conchoresources.com

Expiration Date:

Date: 04/11/08

Phone: 432-685-4332

Conditions of Approval Attached ☐

Mesquite State #9
1650 FNL & 990 FWL, Sec 20, T17S, R29E
Eddy County, New Mexico
API: 30-015-30941

PROCEDURE

1. MIRU pulling unit. POOH laying down rods and pump. Release TAC and NU BOP. Tag bottom and POOH laying down tubing (need 3-4 joints). Send rods and tubing to Artesia yard.
2. PU workstring and TIH w/ bit and scraper. PU cement retainer and TIH.
3. Pump through retainer and set @ 3800'. Pump 300 sx of Class C w/ 2% CaCl₂ + 0.25 celloflake + 3 ppg LCM. Wash up lines and then hesitate down tubing. If no squeeze obtained, over displace 8-10 bbls and repeat.
4. Once squeeze is obtained sting out and reverse out tubing. POOH w/ setting tool.
5. Wait on cement at least 12 hours.
6. PU 4 3/4" workover bit, 20-3 1/2" DC's and 2 7/8" L80 workstring. Drill out squeeze and test to 500 psi. If squeeze does not hold, notify engineer. Drill out shoe and 10' of new hole to 4296' circulating w/ 2% KCl.
7. POOH w/ workover bit. PU 4 3/4" PDC, 14 additional 3 1/2" DC's and motor.
8. Drill using varying weights and RPM's to optimize drill rate. TD 4 3/4" hole @ 5425'.
9. Log well according to geology and utilize caliper log for cement volume determinations.
10. TIH and circulate clean. POOH laying down drill string.
11. Run 4" 11.3# ULTFJ casing w/ float shoe and float collar. Locate positive stand off centralizers @ shoe, 5050', 4650' and 4300'. Run DV tool and set no deeper than 4270'.
12. Cement casing w/ 50% excess volume. Batch mix cement to ensure good cement throughout job. Make sure field blends are tested prior to pumping.
13. Drop DV plug and open stage tool. Circulate cement from top of DV tool out of hole.
14. Pickup 3 5/16" bit and 2 3/8" workstring w/ turned down collars. Drill out DV tool and chase to PBTD. POOH laying down workstring.
15. Prep well for Blinbry frac.

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1400 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

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 30-015-30941		² Pool Code 96610	³ Pool Name Empire; Glorieta-Yeso, East
⁴ Property Code 302527	⁵ Property Name Mesquite State		⁶ Well Number 9
⁷ OGRIP No. 229137	⁸ Operator Name COG OPERATING LLC		⁹ Elevation 3652

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
D	20	17S	29E		890	North	480	West	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

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Kanicia Carrillo Printed Name Regulatory Analyst Title and E-mail Address 04/11/08 Date
				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. Referred Original Plat Date of Survey Signature and Seal of Professional Surveyor:
				Referred Original Survey Certificate Number

COG OPERATING LLC
550 W. Texas Ave., Suite 1300
Midland, TX 79701
(432) 683-7443
(432) 685-4339

FAX COVER SHEET

TO: Tim GumCOMPANY: OCDFAX #: 505-748-9720FROM: Kanicia CarrilloDATE: 04/11/08NUMBER OF PAGES INCLUDING COVER: 24

COMMENTS:

Tim,

Could you please review the attached C-101 for approval? We have over looked this one and we are ready to move on.

Thank you so much!

Kanicia Carrillo
NM Regulatory Analyst
432-685-4332

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Thank you.

NEW MEXICO OIL CONSERVATION DIVISION
1301 WEST GRAND AVE.
ARTESIA, NEW MEXICO 88210
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NM OCD



Fax

To: Kanicia From: Kimberly -
Fax: 432-685-4399 Pages: 2
Phone: 432-685-4332 Date: 4-11-08
Re: _____ CC: _____

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:
