

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

JUN - 3 2009

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 229137
		³ API Number 30-015-25430
⁵ Property Code 302497	⁴ Property Name GJ West Coop Unit	⁶ Well No 71
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
L	22	17S	29E		2615	South	25	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 3557
¹⁶ Multiple N	¹⁷ Proposed Depth 6000	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
²¹ Proposed Casing and Cement Program				

Pit: Liner Synthetic ☐ _____ mls thick Clay ☐ Pit Volume: _____ bbls Drilling Method: _____
Closed-Loop System ☒ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4	8-5/8	24	296	250	0
7-7/8	5-1/2	15.5	4549	2800	0
4-3/4	4	11.3	6000	115	0

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 Attachments

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		Approved by	
Title Regulatory Analyst		Title Geologist	
E-mail Address kcarrillo@conchoresources.com		Approval Date 6/4/2009 Expiration Date 6/4/2011	

Date: 06/02/09	Phone 432-685-4332	Conditions of Approval Attached <input type="checkbox"/>
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GJ West Coop Unit #118

Deepening Procedure

1. MIRU rig.
2. POOH w/ rods and tbg.
3. Squeeze off GB/SA and Pdck perfs. Drill out squeezes.
4. PU 4-3/4" bit and drill 4-3/4" from 4549' to 6000'.
5. POOH w/ bit and drillstring.
6. RIH w/ logs and log from TD to 4500'.
7. RIH w/ 4", 11.3# casing.
8. Cement casing from TD to 4450' w/ 115 sxs Class C cmt.
9. RDMO rig.

Completion Procedure

1. MIRU rig.
2. RIH/ w/ perforating guns and perforate Yeso from 5500 – 5300 w/ 2 spf, 30 holes.
3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand. Set plug at 5250'.
4. RIH w/ perforating guns and perforate Yeso from 5200' – 5000'.
5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand. Set plug at 4950'.
6. RIH w/ perforating guns and perforate Yeso from 4900' – 4700'.
7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand.
8. RIH and drill out plug at 4950' and 5250'.
9. RIH and cut 4" casing at 4450'. POOH w/ 4" casing. Leave 4" liner from 4450' to 6000' (TD).
10. RIH w/ tbg and locate end of tbg at 4300'.
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 30-015-25430	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	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC	⁶ Well Number 71
		⁹ Elevation 3557

¹⁰ Surface Location

UL or lot no. L	Section 22	Township 17S	Range 29E	Lot Idn	Feet from the 2615	North/South line South	Feet from the 25	East/West line West	County Eddy
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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.			

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 06/02/09				
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				
Certificate Number				