State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

District II

1301 W Grand Avenue, Artesia, NM 88210



Submit to appropriate District Office

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEIEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address COG OPERATING LLC 550 W. Texas, Suite 1300 Midland, TX 79701 Propert Code 302497 Grayburg Jackson; 7RVS-QN-GB-Gloricta-Yeso, East Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Gloricta-Yeso, East Proposed Bottom Hole Location If Different From Surface or lot no Section Township Ranger Lot lide Feet from the Section South 2310 West Eddy Proposed Bottom Hole Location If Different From Surface or lot no Section Township Ranger Lot lide Feet from the North-South hore Feet from the Fourth the Grant West Inc. Additional Well Information Proposed Depth Trepased Depth T	000 Rio Braz District IV 220 S. St. Fra				•	122		on Division Francis Dr. M 87505	OCD-AR	2008 Tesia	MENDED REPORT	
COG OPERATING ILC \$50 W. Texas, Suite 1300 Midland, TX 9701 Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East Proposed Pool 2 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East Proposed Pool 2 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East Proposed Pool 1 Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East Proposed Bottom Hole Location Feet from the State-West line Country	•			,	r TO DI					CK, OR Al	DD A ZONE	
South Sout			•	Operator Name a	and Addre	SS		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		2 OGRID Numb	per	
Proposed Pool GJ West Coop Unit G2				0 W. Texas,	Suite 1	300		³ API Number				
Proposed Pool 2 Grayburg Jackson; 7RVS-QN-GB-Gloricta-Yeso, East Proposed Pool 2	³ Proper	ty Code	T	Midianu, 12		Pro	operty Name	`		° W	ell No	
Carayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East 2 Surface Location 3 Section 1 Township 2 Surface Location 1 South 2 South 2 Stuth 2 S		2497				GJ We	st Coop U	nit	30 p		02	
Township	Gravbi	ırg Jack		•	Glorie	ta-Yeso	o. East		" Prop	oosed Pool 2		
Section Township Range Lot Idn Feet from the South Sat South S		<u> </u>						ion				
Additional Well Information Work Type Code Well Type Code Castron the County County County	JL or lot no K				Lot I	Idn Feet from th		North/South line Feet from the				
Additional Well Information "Work Type Code DO O Rotary S 3544.4" "Multiple Proposed Depth Promation Personal Date of Program Distance from nearest fresh water well Distance from nearest fresh water well Distance from nearest fresh water well Closed-Loop System December Date Casing and Cement Program Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC 12-1/4 8-5/8 24 337 250 7-7/8 5-1/2 15.5 3520 1400 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 sescribe 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 storing knowledge and belief I further certify that the drilling pit will be information given above is true and complete to the contraction of the proposed program, if any. Use additional sheets if necessary See Attachment I hereby certify that the information given above is true and complete to the contraction of the proposed program. If any. Use additional sheets if necessary I hereby certify that the information given above is true and complete to the contraction of the proposed program. If any. Use additional sheets if necessary I hereby certify that the information given above is true and complete to the contraction of the proposed program. If any. Use additional sheets if necessary I hereby certify that the information given above is true and complete to the contraction of the proposed program. If any. Use additional sheets if necessary I hereby certify that the information given above is true and complete to the contract of the proposed program. If the proposed program is the proposed program is the proposed program. If the proposed program is the proposed program is the proposed program. If the proposed program is the proposed program is the proposed program. If the proposed program is the proposed program is the proposed p				⁸ Propos	sed Botto	om Hole	Location If I	Different From	Surface			
Work Type Code 12 Well Type Code 13 Cable/Rotary 14 Lease Type Code 13 Ground Level Elevation 3544.4°	JL or lot no	Section	Township	Range	Lot I	dn	Feet from the	North/South line	Feet from the	East/West line	County	
D O Rotary S 3544.4' *** Multiple *** Proposed Depth *** Fromation *** Contractor *** Spind Date N					Ad							
Thereby certify that the information given above is true and complete to the st of my knowledge and belief I further certify that the information given above is true and complete to the st of my knowledge and belief I further certify that the drilling pit will be nistructed according to NMOCD guidelines ☐ a general permit ☐ or (attrached) alternative OCD-approved plan ☐. **Hommano** **Proposed Depth** **Yeso** **Promano** **Yeso** **Information** **Promano** *	_			<u>.</u> .	•							
Distance from nearest fresh water well Distance from nearest surface water	_								19 Contractor		²⁰ Spud Date	
Liner: Synthetic mils thick Clay Pit Volume bbls Drilling Method				5700				well	Distance fro			
Closed-Loop System State Casing and Cement Program				1.4.1.01								
Proposed Casing and Cement Program		•		niis unick Ciay [PIL V	oiume	oois	_		iesel/Oil-based	∃ Gas/Aır □	
Hole Size	C103C	d Ecop 535		21	Propos	ed Cas	ing and Ce					
12-1/4 8-5/8 24 337 250 7-7/8 5-1/2 15.5 3520 1400 4-3/4 4 11.3 5700 115 3000 1 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 escribe the blowout prevention program, if any. Use additional sheets if necessary See Attachment Thereby certify that the information given above is true and complete to the st of my knowledge and belief I further certify that the drilling pit will be instructed according to NMOCD guidelines [], a general permit [], or a general permit []	Hole S	ıze	Cas							ement	Estimated TOC	
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	Printed name: Title						Anpro	val Date //	de C	Expuration Date	11/2-10	
				··		····	Appro	Ival Dale/0/7/0	אט זו	Expiration Date	1420110	

Phone. 432-685-4332 Date 10/16/08

Conditions of Approval Attached In NOTE TIE BACIL ON PRODUCTION

GJ West Coop Unit #62

Deepening Procedure

- 1. MIRU rig.
- 2. PU 4-3/4" bit and drill 4-3/4" from 3535' 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 3362' 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 3362'. POOH w/ 4" casing. Leave 4" liner from 3362' to 5700' (TD).
- 10. RIH w/ tbg and locate end of tbg at 3262'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 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.

Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

Form C-102

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

¹ API Number	² Pool Code	³ Pool Name			
30-015-25088	97558	Grayburg Jackson; 7RVS-QN-GB-Glorieta-Yeso, East			
Property Code		Property Name	⁶ Well Number		
302497		est Coop Unit	62		
229137		Decrator Name ERATING LLC	⁹ Elevation 3544.4		

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
K	22	17S	29E		2310	South	2310	West	Eddy

11 Bottom Hole Location If Different From Surface

		20	**********	C 1300ution ii	Different From	Sarrace		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
		1						
¹³ Joint or	Infill 14 (Consolidation	Code 15 Ora	ier No.				
ī		Section Township 3 Joint or Infill						

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

