District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 144006

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

COG O	or Name and Address PERATING LLC	OGRID Number 229137	
50,50 g 5 (2) C 5	0 W TEXAS AND , TX 79701	3. API Number 30-015-40363	
4. Property Code	5. Property Name	6. Well No.	
302497	G J WEST COOP UNIT		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	21	17S	29E	I	1650	S	330	E	EDDY

8. Pool Information

GJ;7RVS-QN-GB-GLORIETA-YESO	97558
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Additional Well Information

		Auditional Wen Inform	ation		
9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 3557	
14. Multiple 15. Proposed Depth N 5500		16. Formation Yeso Formation			
Depth to Ground water		Distance from nearest fresh water > 1000	Distance from nearest fresh water well > 1000		

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	300	400	0
Int1	11	8.625	24	850	500	0
Prod	7.875	5.5	17	5500	900	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 300' w/fr water mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill a 11" hole to 850'w/br mud system, wt 10, vis 30, set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 5500'w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2" casing & cement to surface. Note: On production string, a caliper will be run, COG will attempt to circulate.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information give of my knowledge and belief. I further certify that the drilling pit v	S. Maria 1971 1971 1971 1971	OIL CONSERVATION DIVISION		
NMOCD guidelines , a general period OCD-approved plan .		Approved By: Randy Dade		
Printed Name: Electronically filed	by Diane Kuykendall	Title: District Supervisor		
Title: Production Reporting Mgr		Approved Date: 6/5/2012	Expiration Date: 6/5/2014	
Email Address: dkuykendall@con	nchoresources.com		- 1-1	
Date: 6/1/2012	Phone: 432-683-7443	Conditions of Approval Attached		

<u>District I</u>
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<u>District II</u>

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-102 August 1, 2011

Permit 144006

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code		3. Pool Name
30-015-40363	97558		-GB-GLORIETA-YESO
4. Property Code	5. Property Name		6. Well No.
302497	G J WEST COOP UNIT		324
7. OGRID No.	8. Operator Name		9. Elevation
229137	COG OPERATING LLC		3557

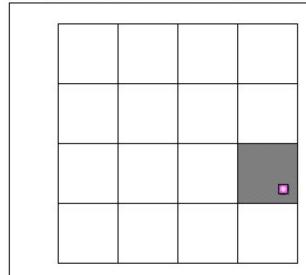
10. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	I	21	17S	29E		1650	S	330	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
District to	cated Acres	13. J	oint or Infill	1	14. Consolidation Code		e 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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Diane Kuykendall Title: Production Reporting Mgr

Date: 6/1/2012

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.

Surveyed By: Ronald Eidson Date of Survey: 5/9/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: G J WEST COOP UNIT #324

API: 30-015-40363

Created By	Comment	Comment Date
kconnally	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	2/7/2012
CSHAPARD	Land p/S	6/1/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: G J WEST COOP UNIT #324

API: 30-015-40363

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string