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

District II 811 S First St Artesia

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

District IV

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 143259

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

COG	tor Name and Address PERATING LLC	OGRID Number 229137	
550 W TEXAS MIDLAND , TX 79701		3. API Number 30-015-39860	
4. Property Code	5. Property Name	6. Well No.	
38721	RAPTOR 12 STATE COM	002H	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	12	16S	28E	I	1980	S	330	E	EDDY

8. Pool Information

CROW FLATS: ABO	97691

Additional Well Information

		Additional Well Inform	nation	
9. Work Type	10. Wett Type	11. Cable/Rotary	12. Lesse Type	13. Ground Level Elevation
New Well	OIL		State	3589
14. Multiple	15. Proposed Depth	16. Formation	17. Contractor	18. Spud Date
N	11136	Abo		3/31/2012
Depth to Ground water 58		Distance from nearest fresh water	r well	Distance to nearest surface water

19. Proposed Casing and Cement Program

	2230223444		or reposed cusing			
Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	275	300	0
Int1	8.75	7	26	5960	1000	0
Prod	6.125	4.5	11.6	11136	0	0

Casing/Cement Program: Additional Comments

COG Proposes to drill a 17-1/2" hole to 275' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" csg & cmt to surface. Drill 8-3/4" hole to 5960' w/ct br mud system, wt 8.7, vis 29-32. Set 7" prod csg @ +/- 5960' & cmt to surface. Drill 6-1/8" pilot hole thru Top Basal Abo to +/- 6950', run OH logs. Spot +/- 250 sx C kick-off plug from +/- 5960' to +/- 6950'. Drill 6-1/8" hole & kick off @ +/- 6293', building curve over +/- 470' of horizontal section in a Westerly direction for +/- 4569' of lateral to TD @ +/- 11136' MD & 6640' TVD Run 4-1/5" prod liner in open hole lateral & set isonlation packers & top liner packer @ +/- 5860' MD. 4-1/2" prod liner will NOT be cemented. Request permission for 100' liner overlap.

Proposed Blowout Prevention Program

DoubleRam 5000 2000 Cameron Type-U	Type	Working Pressure	Test Pressure	Manufacturer

I hereby certify that the information given of my knowledge and belief. I further certify that the drilling pit wil	8501 BY 8201 BY 821	OIL CONSERVATION DIVISION			
NMOCD guidelines , a general permi OCD-approved plan .		Approved By: Randy Dade			
Printed Name: Electronically filed	by Diane Kuykendall	Title: District Supervisor			
Title: Production Reporting Mgr		Approved Date: 1/31/2012	Expiration Date: 1/31/2014		
Email Address: dkuykendall@cond	horesources.com		- 10		
Date: 1/26/2012 F	hone: 432-683-7443	Conditions of Approval Atta	sched		

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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-102 August 1, 2011

Permit 143259

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-39860	2. Pool Code 97691	3. Pool Name CROW FLATS; ABO
4. Property Code 38721	5. Property Nar RAPTOR 12 STAT	
7. OGRID No.	8. Operator Nar	ne 9. Elevation
229137	COG OPERATIN	G LLC 3589

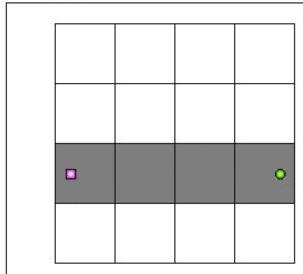
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	12	16S	28E		1980	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
L	12	16S	28E	L	1980	S	330	W	EDDY
	cated Acres	13. J	oint 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



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: 1/26/2012

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: 1/3/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: RAPTOR 12 STATE COM #002H

API: 30-015-39860

Created By	Comment	Comment Date
kholly1	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	1/18/2012
CSHAPARD	Land s/S	1/27/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: RAPTOR 12 STATE COM #002H

API: 30-015-39860

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