State of New Mexico

Form C-101 Permit 62060

Energy, Minerals and Natural Resources

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

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

AITBICATION FOR	ATTEMENTON TO RETERMINE TO BRIBE, RE-ENTER, BEET EN, TEODBACK, OR ADD A ZONE						
1.	1. Operator Name and Address						
CC		229137					
I M	550 W TEXAS MIDLAND , TX 79701						
14.							
4. Property Code	5. Property Name		6. Well No.				
36785		001H					

7. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	P	12	16S	28E	P	430	S	330	E	EDDY

8. Pool Information

WILDCAT; WOLFCAMP GAS 97489

Additional Well Information

	561		. Million III II III III III		0.00
9. Work Type New Well	2000	il Type IL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3587
14. Mõultiple N	2000000	osed Depth '000	Mark Transfer Control of the Control		18. Spud Date 11/15/2007
Depth to Ground water 110			Distance from nearest fresh water w > 1000	rell	Distance to nearest surface water > 1000
Pit: Liner: Synthetic D Closed Loop Syster	_	mils thick		Drilling Method: Fresh Water Brine	Diesel/Oil-based 🗆 Gas/Air 🗙

19. Proposed Casing and Cement Program

	1.5.51.52/11/15/5				9	
Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	275	300	0
Int1	12.25	9.625	40	2300	950	0
Prod	7.875	5.5	17	11500	100	6500
Int2	8.75	5.5	17	7000	400	6500

Casing/Cement Program: Additional Comments

COG proposes to dr 17-1/2 hole to 275' w/water mud sys, MW 8.5, Vis 28. Run 13-3/8" set @ 275' & cmt to surf. Dr 12-1/4 hole to 2300' w/brine mud sys, MW 10.0, Vis 29. Run 9-5/8" csg set @ 2300' & cmt to surf. Dr 8-3/4" pilot hole thru Wolfcamp to 7000' w/cut brine mud sys, MW 9.1, Vis 29. Run open hole logs. Spot 150 sx H KO plug from 6700' to 6300'. Time dr & KO 7-7/8" hole @ +/- 6300', building curve over +/- 475' to horizontal 6770' TVD, 11,500' MD.

Proposed Blowout Prevention Program

<u> </u>	11010000121011011011		18
Туре	Working Pressure Tes		Manufacturer
Annular	3000	1250	
DoubleRam	3000	3000	
Annular	3000	1500	

I hereby certify that the information given above is true and complete to of my knowledge and belief. I further certify that the drilling pit will be constructed according	OIL CONSERVATION DIVISION		
NMOCD guidelines \mathbb{Z} , a general permit Γ , or an (attached) altern OCD-approved plan Γ .	Approved By: Bryan Arrant		
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist		
Title: Regulatory Analyst	Approved Date: 10/15/2007 Expiration Date: 10/15/2008		
Email Address: dkuykendall@conchoresources.com			
Date: 10/9/2007 Phone: 432-685-4372	Conditions of Approval Attached		

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 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

Form C-102 Permit 62060

Energy, Minerals and Natural Resources

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

CDD DOCATION AND AIGIC	ENOL DEDICATION I BAT		
2. Pool Code	3. Pool Name		
97489	WILDCAT; WOLFCAMP O	AS	
5. Property	Name 6. Well	No.	
RAVEN 12 STATE		I	
8. Operator	Name 9. Eleva	tion	
COG OPERATING LLC 3587			
	2. Pool Code 97489 5. Property RAVEN 12 S 8. Operator	97489 WILDCAT; WOLFCAMP G 5. Property Name 6. Well RAVEN 12 STATE 0011 8. Operator Name 9. Elevat	

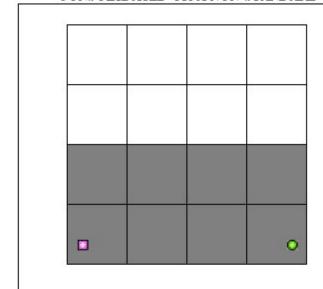
10. Surface Location

										_
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County]
P	12	16S	28E		430	S	330	E	EDDY	l

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
M	12	16S	28E	M	430	S	330	W	EDDY
00701107033	sated 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: Regulatory Analyst Date: 10/9/2007

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: Gary Jones
Date of Survey: 10/5/2007
Certificate Number: 7977

Permit Comments

Operator: COG OPERATING LLC, 229137

Well: RAVEN 12 STATE #001H

API: 30-015-35863

Created By	Comment	Comment Date
PEDWARDS	H2S concentrations of wells in this are from surface to TD are low enough that a contingency plan is not required.	10/8/2007
PEDWARDS	Directional plan and original plat will be submitted by mail.	10/9/2007

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: RAVEN 12 STATE #001H

API: 30-015-35863

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Will require a directional survey with the C-104
BArrant	Operator to set surface casing above the Salado. Please refer to offset geology for more information.
BArrant	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Operator to submit a directional drill plan prior to spudding well.