

State of New Mexico
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

1. Operator Name and Address COG OPERATING LLC 550 W Texas Midland, TX 79701		2. OGRID Number 229137
4. Property Code 34284		3. API Number 30-025-37491
5. Property Name RED RAIDER STATE		6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
G	19	20S	36E	G	1980	N	1980	E	LEA

8. Pool Information

FEATHERSTONE,BONE SPRING, EAST	24270
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3628
14. Multiple N	15. Proposed Depth 10500	16. Formation Bone Spring	17. Contractor	18. Spud Date 10/20/2005
Depth to Ground water 81		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic ☒ 12 _____ miles thick Clay ☐ Pit Volume: 35000 _____ bbls Drilling Method: Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

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	500	400	0
Int1	11	8.625	32	3800	800	0
Prod	7.875	5.5	17	10500	500	7500

Casing/Cement Program: Additional Comments

Dr 17-1/2" to 500'. Run 13-3/8" 48# H40 ST&C csg & cmt w/200 sx 35/65 Poz C + additives. Tail w/200 sx C1 C + 2% CaCl2. Circ. Dr 11" to 3800'. Run 8-5/8" 32# J-55 ST&C csg & cmt w/600 sx 50/50 Poz C cmt + additives followed by 200 sx C1 C1 + 1% CaCl2. Circ. Dr 7-7/8" to 10,500'. Run 5-1/2" 17# N80 LT&C csg & cmt w/500 sx 50/50 Poz H cmt + additives. Est TOC @ 7500'.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1250	
DoubleRam	3000	3000	
Annular	3000	1500	

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 NMOCDD guidelines ☒ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Paul Kautz	
Title: Regulatory Analyst	Approved Date: 10/7/2005	Expiration Date: 10/7/2006
Email Address: dkuykendall@conchoresources.com		
Date: 10/7/2005	Phone: 432-685-4372	

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

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Form C-102
 Permit 16476

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-37491	2. Pool Code 24270	3. Pool Name FEATHERSTONE,BONE SPRING, EAST
4. Property Code 34284	5. Property Name RED RAIDER STATE	6. Well No. 002
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3628

10. Surface Location

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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
12. Dedicated Acres 40.00		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

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> E-Signed By: Diane Kuykendall Title: Regulatory Analyst Date: 10/7/2005
	SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: Gary Eidson Date of Survey: 9/28/2005 Certificate Number: 12641

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: RED RAIDER STATE #002

API: 30-025-37491

OCD Reviewer	Condition
pkautz	prior to any pit construction notify Gary Wink at 505-393-6161 ext 114
pkautz	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