

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 37859		3. API Number 30-025-22913-39540
5. Property Name HIGH PLAINS 22 STATE COM		6. Well No 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	22	14S	34E	E	1980	N	430	W	LEA

8. Pool Information

WILDCAT ABO 0

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable Rotary	12. Lease Type State	13. Ground Level Elevation 4133
14. Multiple N	15. Proposed Depth 14000	16. Formation Abo	17. Contractor	18. Spud Date 2/15/2010
Depth to Ground water 58		Distance from nearest fresh water well		Distance to nearest surface water
Pit Liner Synthetic ☐ muls thick Clay ☐ Pit Volume ☐ 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	54.5	425	300	0
Int1	12.25	9.625	40	4500	1220	0
Prod	8.75	7	26	9060	1000	0
Liner1	6.125	4.5	11.6	14000	0	

Casing/Cement Program: Additional Comments

COG Proposes to drill a 17-1/2" hole to 425' w fr wtr mud system, wt 8.5, vis 28, set 13-3/8" csg & cmt to surface. Drill a 12-1/4" hole to 4500' w br mud system, wt 10, vis 30. Set 9-5/8" csg & cmt to surf. Drill 8-3/4" hole to 9060' w ct br mud system, wt 8.7, vis 29-32. Set 7" prod csg @ +/- 9060' & cmt to surface. Drill 6-1/8" pilot hole thru Top Basal Abo to +/- 9900', run OH logs. Spot +/- 250 sx C kick-off plug from +/- 9060' to +/- 9900'. Drill 6-1/8" hole & kick off @ +/- 9200', building curve over +/- 470' of horizontal section in a easterly direction for +/- 4070' of lateral to TD @ +/- 14000' MD & 9665' TVD. Run 4-1/2" prod liner in open hole lateral & set isolation packers & top liner packer @ +/- 8960' MD. 4-1/2" prod liner will NOT be cemented.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	2000	Cameron Type-U
Annular	5000	2000	Hydril

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 NMOCDC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Diane Kuykendall

Title: Regulatory Analyst

Email Address: dkuykendall@conchoresources.com

Date: 10/6/2009

Phone: 432-683-7443

OIL CONSERVATION DIVISION

Approved By: Paul Kautz

Title: Geologist

Approved Date: 10/15/2009

Expiration Date: 10/15/2011

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(505) 393-6161 Fax (505) 393-6720

District II

1301 W. Grand Ave., Artesia, NM 88210
 Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Artec, NM 87410
 Phone (505) 334-6175 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 103020

Energy, Minerals and Natural Resources**Oil Conservation Division****1220 S. St Francis Dr.****Santa Fe, NM 87505****WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-22913 89542	2. Pool Code	3. Pool Name WILDCAT ABO
4. Property Code 37859	5. Property Name HIGH PLAINS 22 STATE COM	6. Well No. 001H
7. OGRID No 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4133

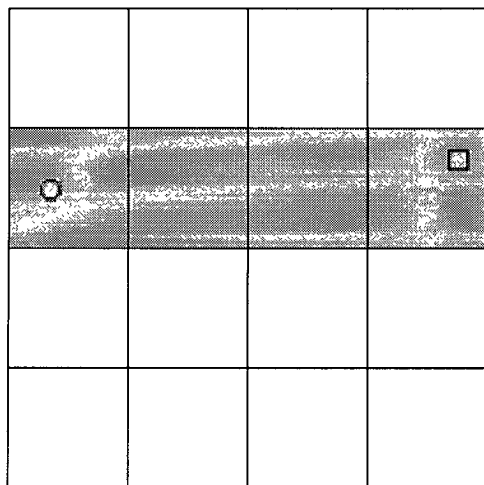
10. Surface Location

UL - Lot E	Section 22	Township 14S	Range 34E	Lot Idn	Feet From 1980	N/S Line N	Feet From 430	E/W Line W	County LEA
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11. Bottom Hole Location If Different From Surface

UL - Lot H	Section 22	Township 14S	Range 34E	Lot Idn H	Feet From 1650	N/S Line N	Feet From 330	E/W Line E	County LEA
12. Dedicated Acres 160.00	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 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: 10/6/2009

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: 9/23/2009

Certificate Number: 7977

Permit Comments

Operator: COG OPERATING LLC , 229137
Well: HIGH PLAINS 22 STATE COM #001H
API: 30-025-~~22913~~ 39540

Created By	Comment	Comment Date
PEDWARDS	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required	10/1/2009
pkautz	need C144	10/7/2009