State of New Mexico

Form C-101 Permit 111608

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

	erator Name and Address F OPERATING LLC	 OGRID Number 229137 	
MI	550 W TEXAS DLAND , TX 79701	3. API Number 30-025-39757	
4. Property Code 38164	5. Property Name CHICKEN HAWK 21 STATE COM	6. Wett No. 001	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	21	16S	32E	M	430	S	535	W	LEA

8. Pool Information

ANDERSON RANCH; WOLFCAMP, WEST 1923

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4336	
14. Multiple 15. Proposed Depth N 13520		16. Formation Wolfcamp	17. Contractor	18. Spud Date 8/31/2010	
Depth to Ground	water	Distance from nearest fresh water v > 1000	well	Distance to nearest surface water > 1000	
it: Liner: Synthetic D Closed Loop Syste			Drilling Method: Fresh Water X 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	1225	450	0
Int1	12.25	9.625	40	4000	1000	0
Int2	8.75	7	26	7900	600	0
Prod	6.125	4.5	11.6	13520	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill 17-1/2" hole to 400° w/ fresh water mud system, wt. 8.5, vis 28, set 13-3/8" casing & cement to surf. Drill an 12.25" hole to 4000° w/ brine mud system, wt 10, vis 30, set 9-5/8" casing & cement to surf. Drill 8-3/4" hole to 7900° w/ cut brine mud system, wt 8.7, vis 29-32. Set 7" prod casing @ +/- 7900°. Drill 6-1/8" pilot hole thru Top Lower Abo to +/- 8955°, run open hole logs. Spot +/- 250sxs C. Kick off plug from +/- 8955° to +/- 8000°. Drill 6-1/8" hole & kick off @ +/- 8125°, building curve over +/- 450° horizontal section in a Northerly direction for +/- 4650° lateral to TD @ +/- 13520° MD, 9135° TVD. Run 4-1/2" prod liner in un-cemented open hole lateral & set isolation packers & liner top packer @ +/- 7800° MD.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

of my knowledge and belief.	ation given above is true and complete to the best ling pit will be constructed according to	OIL CONSERVATION DIVISION			
	neral permit , or an (attached) alternative	Approved By: Paul Kautz			
Printed Name: Electronic	ally filed by Diane Kuykendall	Title: Geologist			
Title: Regulatory Analys	t	Approved Date: 6/1/2010	Expiration Date: 6/1/2012		
Email Address: dkuykend	fall@conchoresources.com				
Date: 5/21/2010	Phone: 432-683-7443	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 111608

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	2. Pool Code		. Pool Name
30-025-39757	1923		NCH;WOLFCAMP, WEST
4. Property Code	5. Prope	6. Wett No.	
38164	CHICKEN HAWI	001	
7. OGRID No.	8. Opera	9. Elevation	
229137	COG OPER	4336	

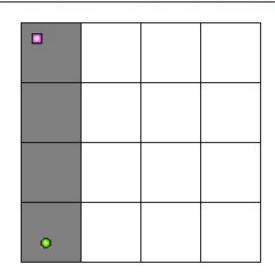
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	21	16S	32E	1.	430	S	535	W	LEA

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
D	21	16S	32E	D	330	N	330	W	LEA
12. Dedicated Acres 13. Joint or Infil1 160.00		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: 5/21/2010

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 Eidson Date of Survey: 4/13/2010 Certificate Number: 12641

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: CHICKEN HAWK 21 STATE COM #001

API: 30-025-39757

Created By	Comment	Comment Date
rodom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	3/30/2010
DMULL	OCD Hobbs has received form C-144 "Pit Registration". OCD Permit Number P1-02045.	5/27/2010

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: CHICKEN HAWK 21 STATE COM #001

API: 30-025-39757

OCD Reviewer	Condition
DMULL	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