

**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 <b>CIMAREX ENERGY CO. OF COLORADO</b> 15 E 5TH STREET TULSA, OK 74103		2. OGRID Number 162683
		3. API Number 30-05-29122
4. Property Code 37271	5. Property Name HANCOCK 19 STATE COM	6. Well No. 004H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	19	15S	31E	A	660	N	330	E	CHAVES

**8. Pool Information**

WILDCAT G-05 S153117E;ABO-WOLFCAMP	97722
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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 4434
14. Multiple N	15. Proposed Depth 13272	16. Formation Abo	17. Contractor	18. Spud Date 5/15/2010
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mils thick    Clay <input type="checkbox"/> Pit Volume:      bbls    Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**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	340	800	0
Prod	8.75	7	26	8400	1285	0
Liner1	6.125	4.5	11.6	13272	0	
Prod	8.75	2.875	2.18	9000	0	

**Casing/Cement Program: Additional Comments**

Intermediate casing string was eliminated. But if hole conditions require it, an intermediate string will be set, 9-5/8" 40# J/K-55 LTC @ 3950.' Drill 8-3/4" hole to TD of 9000' and log. Run fiberglass from 9000' to 8400' and 7" from 8400' to 0' and cement to surface. Use fiberglass and cement as kick-off plug for the lateral hole. Kick off lateral @ 8570.' Drill to lateral TD 13272' MD, 8790' TVD. Use PEAK completion liner in lateral. No cement required.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameran

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 NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Zeno Farris	Approved By: Paul Kautz
Title: Manager Operations Administration	Title: Geologist
Email Address: zfarris@magnumhunter.com	Approved Date: 3/23/2010      Expiration Date: 3/23/2012
Date: 3/22/2010      Phone: 972-443-6489	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

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Form C-102  
Permit 111253

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-05-29122	2. Pool Code 97722	3. Pool Name WILDCAT G-05 S153117E;ABO-WOLFCAMP
4. Property Code 37271	5. Property Name HANCOCK 19 STATE COM	6. Well No. 004H
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4434

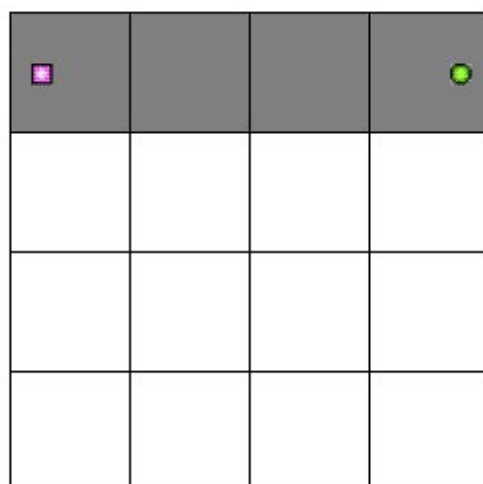
**10. Surface Location**

UL - Lot A	Section 19	Township 15S	Range 31E	Lot Idn	Feet From 660	N/S Line N	Feet From 330	E/W Line E	County CHAVES
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**11. Bottom Hole Location If Different From Surface**

UL - Lot D	Section 19	Township 15S	Range 31E	Lot Idn 1	Feet From 660	N/S Line N	Feet From 330	E/W Line W	County CHAVES
12. Dedicated Acres 159.32		13. Joint or Infill		14. Consolidation Code Communitization		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: Zeno Farris  
Title: Manager Operations Administration  
Date: 3/22/2010

**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 L. Jones  
Date of Survey: 11/23/2009  
Certificate Number: 7977

## Permit Comments

**Operator:** CIMAREX ENERGY CO. OF COLORADO , 162683

**Well:** HANCOCK 19 STATE COM #004H

**API:** 30-05-29122

Created By	Comment	Comment Date
NKRUEGER	C-102, C-144, and preliminary directional survey will all be emailed to Donna Mull.	3/22/2010
NKRUEGER	Cimarex Energy Co. of Colorado does not anticipate that there will be enough H2S from the surface to the Abo formation to meet the OCD's minimum requirements for the submission of a contingency plan for this test.	3/22/2010
DMULL	OCD Hobbs has received form C-144 "Pit Registration". OCD Permit Number P1-01881.	3/23/2010
DMULL	API number has been assigned by OCD for DRILLING ONLY: your company has too many inactive wells in violation of the Inactive well Rule 19.15.5.9 NMAC. You must bring your inactive well list to 10 or less before you can produce this well.	3/23/2010



## Permit Conditions of Approval

**Operator:** CIMAREX ENERGY CO. OF COLORADO , 162683

**Well:** HANCOCK 19 STATE COM #004H

**API:** 30-05-29122

OCD Reviewer	Condition
DMULL	Will require operator to bring Inactive well list to 10 or less before producing this well. Per Rule 19.15.5.9 NMAC.