

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 CIMAREX ENERGY CO. OF COLORADO 5215 N. O'CONNOR BLVD. IRVING, TX 75039		2. OGRID Number 162683
		3. API Number 30-05-29046
4. Property Code 37271	5. Property Name HANCOCK 19 STATE COM	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
P	19	15S	31E	P	375	S	375	E	CHAVES

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 4440
14. Multiple N	15. Proposed Depth 13185	16. Formation Abo	17. Contractor	18. Spud Date 9/1/2008
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic ☐ mils 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	48	350	330	0
Int1	12.25	9.625	40	3950	665	0
Prod	8.75	7	26	9075	615	3750
Liner1	6.125	4.5	11.6	13185	0	

Casing/Cement Program: Additional Comments

After setting and cementing 7" casing in pilot hole, set whipstock plug and mill window @ 8565'-8575.' Kick off horizontal @ 8570' and drill to TD of MD 13185' and TVD 8790.' Run 4.5" PEAK Completions Liner which will require no cement.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameron

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 NMOCB guidelines ☐ a general permit ☐ or an (attached) alternative OCB-approved plan ☐.

Printed Name: Electronically filed by Zeno Farris

Title: Manager Operations Administration

Email Address: zfarris@magnumhunter.com

Date: 7/23/2008 Phone: 972-443-6489

OIL CONSERVATION DIVISION

Approved By: Paul Kautz

Title: Geologist

Approved Date: 7/23/2008

Expiration Date: 7/23/2010

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
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
 Permit 79278

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-05-29046	2. Pool Code	3. Pool Name Wildcat Abo
4. Property Code 37271	5. Property Name HANCOCK 19 STATE COM	6. Well No. 002
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4440

10. Surface Location

UL - Lot P	Section 19	Township 15S	Range 31E	Lot Idn	Feet From 375	N/S Line S	Feet From 375	E/W Line E	County CHAVES
---------------	---------------	-----------------	--------------	---------	------------------	---------------	------------------	---------------	------------------

11. Bottom Hole Location If Different From Surface

11. Bottom Hole Location If Different From Surface									
UL - Lot M	Section 19	Township 15S	Range 31E	Lot Idn 4	Feet From 375	N/S Line S	Feet From 375	E/W Line W	County CHAVES
12. Dedicated Acres 159.30		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>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.</i>			
	E-Signed By: Zeno Farris Title: Manager Operations Administration Date: 7/23/2008			
	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 L. Jones Date of Survey: 5/10/2008 Certificate Number: 7977				

Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: HANCOCK 19 STATE COM #002

API: 30-05-29046

Created By	Comment	Comment Date
NKRUEGER	Well is a horizontal Abo oil well test with a SHL in UL P and a BHL in UL M. Therefore, it will require a S2S2 159.3-acre lay-down oil well spacing unit.	7/23/2008
NKRUEGER	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	7/23/2008
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.	7/23/2008