

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 30-05-29100
4. Property Code 37761	5. Property Name VALLEY FORGE 20 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
I	20	15S	31E	I	1980	S	375	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 4423
14. Multiple N	15. Proposed Depth 13312	16. Formation Abo	17. Contractor	18. Spud Date 9/15/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic ☐ mls 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	340	800	0
Int1	12.25	9.625	40	3950	1165	0
Prod	8.75	7	26	8620	760	3450
Prod	6.125	4.5	11.6	13312	760	3450
Liner1	8.75	2.875	2.18	9000	0	

Casing/Cement Program: Additional Comments

The second Production casing string is a fiberglass stinger. 7" casing will be run to 8620 in the 8.75" vertical hole and fiberglass tubing will be run from 8620 to 9000. Both will be cemented using 760 sx cmt. The fiberglass tubing effectively circulates cement to 3450' and plugs back the open hole. The cemented fiberglass will be used as a Kickoff plug for drilling the lateral.

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 ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐ .	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Zeno Farris	Approved By: Paul Kautz
Title: Manager Operations Administration	Title: Geologist
Email Address: zfarris@magnumhunter.com	Approved Date: 7/30/2009 Expiration Date: 7/30/2011
Date: 7/27/2009	Phone: 972-443-6489

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 99710

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-05-29100	2. Pool Code 97722	3. Pool Name WILDCAT G-05 S153117E; ABO-WOLFCAMP
4. Property Code 37761	5. Property Name VALLEY FORGE 20 STATE COM	6. Well No. 002
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4423

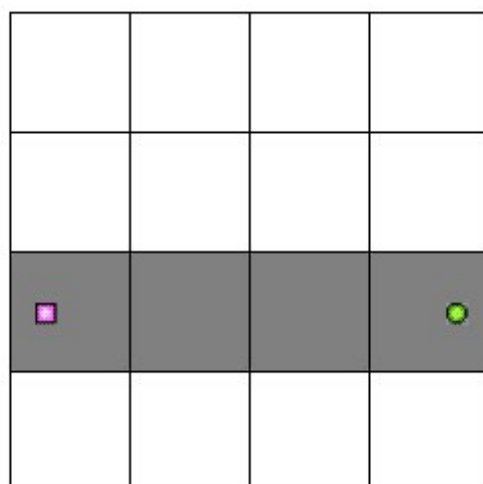
10. Surface Location

UL - Lot I	Section 20	Township 15S	Range 31E	Lot Idn	Feet From 1980	N/S Line S	Feet From 375	E/W Line E	County CHAVES
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11. Bottom Hole Location If Different From Surface

UL - Lot L	Section 20	Township 15S	Range 31E	Lot Idn L	Feet From 1980	N/S Line S	Feet From 375	E/W Line W	County CHAVES
12. Dedicated Acres 160.00		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: 7/27/2009

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 L. Jones
Date of Survey: 6/23/2009
Certificate Number: 7977

Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: VALLEY FORGE 20 STATE COM #002

API: 30-05-29100

Created By	Comment	Comment Date
NKRUEGER	PEAK Completions Systems iso-packer, iso-port liner will be used and will not require cementing. KOP for the lateral will be 8660.' Projected TD at BHL is MD 13312,' TVD 8745.'	7/27/2009
NKRUEGER	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	7/27/2009
NKRUEGER	This well is a proposed horizontal Abo test with SHL in UL I and BHL in UL L and will require a lay-down 160-acre spacing unit (N2S2).	7/27/2009
NKRUEGER	Cimarex Energy Co. 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.	7/27/2009
DMULL	OCD Hobbs office has received form C-144 "Pit Registration". OCD Permit Number P1-01262.	7/30/2009