

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 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-101
August 1, 2011
Permit 161643

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CIMAREX ENERGY CO. 600 N MARIENFELD STREET MIDLAND, TX 79701		2. OGRID Number 215099
4. Property Code 39674		3. API Number 30-025-40957
5. Property Name WEST GRAMA RIDGE 8 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
M	8	22S	34E	M	330	S	660	W	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	8	22S	34E	D	330	N	660	W	Lea

9. Pool Information

GRAMA RIDGE, BONE SPRINGS, WEST	28432
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3520
16. Multiple N	17. Proposed Depth 15364	18. Formation Bone Spring	19. Contractor	20. Spud Date 8/1/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

21. 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	1745	1334	0
Int1	12.25	9.625	36	5250	1417	0
Prod	8.75	5.5	17	15364	2166	5000

Casing/Cement Program: Additional Comments

Drill Pilot hole to 12500' and log. Set OH whipstock w/ 1970' of 2-7/8" tbg & pump 30 bbls Mudpush @ 12 ppg, followed by 910 sx of Class H cmt, dispersant 0.080 gals/sk, retarder 0.045 gals/sk @ 17.5 ppg, 0.94 cu ft/sk & 0% excess from pilot hole TD to KOP. KO lateral drill through the curve to TD. Run 5-1/2" csg to TD & cement.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☐ , if applicable. Signature: _____ Printed Name: Electronically filed by GENE A HOLLOWAY Title: Prod Admin Supervisor Email Address: gholloway@cimarex.com Date: 1/31/2013	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">OIL CONSERVATION DIVISION</th> </tr> <tr> <td colspan="2">Approved By: Paul Kautz</td> </tr> <tr> <td>Title: Geologist</td> <td></td> </tr> <tr> <td>Approved Date: 1/31/2013</td> <td>Expiration Date: 1/31/2015</td> </tr> <tr> <td colspan="2">Conditions of Approval Attached</td> </tr> </table>	OIL CONSERVATION DIVISION		Approved By: Paul Kautz		Title: Geologist		Approved Date: 1/31/2013	Expiration Date: 1/31/2015	Conditions of Approval Attached	
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DISTRICT I

1825 N. French Dr., Hobbs, NM 88240
Phone (505) 363-6181 Fax: (505) 363-0720

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811 S. First St., Artesia, NM 88210
Phone (505) 748-1263 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Asten, NM 87410
Phone (505) 834-0176 Fax: (505) 834-0170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3450 Fax: (505) 478-3452State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 28432	Pool Name Grama Ridge; Bone Springs, West
Property Code	Property Name WEST GRAMA RIDGE 8 STATE COM	Well Number 1
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3520'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	22 S	34 E		330	SOUTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	22 S	34 E		330	NORTH	660	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°24'45.31" Long - W 103°29'54.41" NMSPC - N 514836.5 E 798980.9 (NAD-83) SURFACE LOCATION Lat - N 32°23'59.61" Long - W 103°29'54.51" NMSPC - N 510217.7 E 799008.4 (NAD-83)	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 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>Michelle Chappell</i> 1/30/13 Signature Date Michelle Chappell Printed Name mchappell@cimarex.com Email Address
	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. FEBRUARY 1 2012 Date Surveyed Signature & Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26187

Permit Comments

Operator: CIMAREX ENERGY CO. , 215099

Well: WEST GRAMA RIDGE 8 STATE COM #001H

API: 30-025-40957

Created By	Comment	Comment Date
CHERRERA	OCD RECIEVED FORM C144 CLEZ. OCD PERMIT # P1-05676	1/31/2013
pkautz	Land s/S	1/31/2013

Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. , 215099

Well: WEST GRAMA RIDGE 8 STATE COM #001H

API: 30-025-40957

OCD Reviewer	Condition
pkautz	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