

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 168322

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
		3. API Number 30-025-41210
4. Property Code 39527	5. Property Name QUAIL 11 STATE	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
N	11	19S	34E	N	330	S	1980	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
C	11	19S	34E	C	330	N	1980	W	Lea

9. Pool Information

SCHARB;BONE SPRING	55610
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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 3974
16. Multiple N	17. Proposed Depth 15172	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	1935	1490	0
Int1	12.25	9.625	36	3600	860	0
Prod	8.75	5.5	17	15172	2216	3100

Casing/Cement Program: Additional Comments

Drill pilot hole to 11,000' and log. Set OH whipstock with 727' of 2 7/8" tbg and pump 30 bbls Mudpush @ 12 ppg, followed by 260 sx of Class H cement @ 15.6 ppg, 1.2 cu ft/sk and 0% excess from pilot hole TD to KOP. KO lateral drill through the curve to TD. Run 5 1/2" casing to TD and 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: 6/11/2013 Phone: 918-295-1658	OIL CONSERVATION DIVISION Approved By: Paul Kautz Title: Geologist Approved Date: 6/12/2013 Expiration Date: 6/12/2015 Conditions of Approval Attached
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DISTRICT I
1025 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 E. St. Francis Dr., Santa Fe, NM 87505

State 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 July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-	Pool Code 55610	Pool Name Scharb; Bone Spring
Property Code 39527	Property Name QUAIL 11 STATE	Well Number 4H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3974'

Surface Location

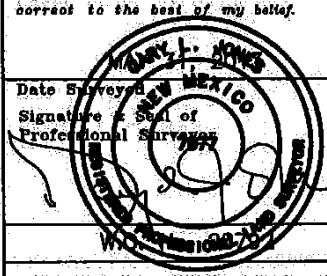
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	19 S	34 E		330	SOUTH	1980	WEST	LEA

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
C	11	19 S	34 E		330	NORTH	1980	WEST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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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

N: 612782.4 E: 785555.5 1980' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°40'52.25" Long - W 103°31'59.33" NMSPC - N 612472.7 E 787538.0 (NAD-83)	330' 4619.1'	N: 612836.2 E: 790840.3	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> 06/10/2013 Signature Date Michelle Chappell Printed Name mchappell@cimarex.com Email Address
N: 610143.5 E: 785579.1		N: 610195.7 E: 790864.0	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.  Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28792
N: 607505.4 E: 785603.3 1980' 330' SURFACE LOCATION Lat - N 32°40'06.55" Long - W 103°31'59.24" NMSPC - N 607854.7 E 787579.9 (NAD-83)		N: 607531.2 E: 788244.5	N: 607557.9 E: 790866.8

Permit Comments

Operator: CIMAREX ENERGY CO. , 215099

Well: QUAIL 11 STATE #004H

API: 30-025-41210

Created By	Comment	Comment Date
DMULL	OCD Hobbs has received form C-144dez and C-102 with attachments	6/12/2013
DMULL	OCD PERMIT NUMBER P1-06346	6/12/2013

Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. , 215099

Well: QUAIL 11 STATE #004H

API: 30-025-41210

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104
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
pkautz	In order to seal off protectable water, surface casing must be set 25 feet below top of Rustler Anhydrite