

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-8161 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) 334-8178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3482

**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 191478

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

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 W. Sheridan Avenue Oklahoma City, OK 73102		2. OGRID Number 6137
4. Property Code 40253		3. API Number 30-015-42610
5. Property Name BOSS HOGG 15 STATE COM		6. Well No. 004H

**7. Surface Location**

UL - Lot	A	Section	15	Township	23S	Range	26E	Lot Idn	Feet From	25	N/S Line	N	Feet From	660	E/W Line	E	County	Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot	P	Section	15	Township	23S	Range	26E	Lot Idn	P	Feet From	330	N/S Line	S	Feet From	660	E/W Line	E	County	Eddy
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**9. Pool Information**

WC-015 G-04 S232628M.BONE SPRING	98056
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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 3298
16. Multiple N	17. Proposed Depth 11530	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	620	510	0
Int1	12.25	9.625	36	1950	1170	0
Prod	8.75	5.5	17	11530	1690	1450

**Casing/Cement Program: Additional Comments**

9-5/8" Intermediate 2-Stage Option 310 13.7 8.66 1.67 Tail Class C Cement + 0.4% BWOC LAP-1 + 0.2% BWOC HR-601 + 0.2 lb/sk D-Air 5000 + 4% BWOC Bentonite + 69.3% Fresh Water DV Tool at 1000ft 110 12.9 9.81 1.85 Lead (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water 190 14.8 6.32 1.33 Tail Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water Pilot Hole Plug Back 100 15.6 5.39 1.19 Plug Cement Class H Cement + 0.2% Halad-9 + 0.2% HR-601 + 60.5 % Fresh Water 5-1/2" Production Casing 2-Stage Option 290 12.5 10.86 1.96 Lead (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water 1370 14.5 5.38 1.22 Tail (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water DV Tool at 45

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	
Annular	3000	3000	

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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Randy Bolles	Approved By: Randy Dade
Title: Manager, Regulatory Affairs	Title: District Supervisor
Email Address: randy.bolles@dmv.com	Approved Date: 8/26/2014      Expiration Date: 8/26/2016
Date: 8/26/2014      Phone: 405-228-8588	Conditions of Approval Attached

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 191478

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-42610	2. Pool Code 98056	3. Pool Name WC-015 G-04 S232628M;BONE SPRING
4. Property Code 40253	5. Property Name BOSS HOGG 15 STATE COM	6. Well No. 004H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3298

**10. Surface Location**

UL - Lot A	Section 15	Township 23S	Range 26E	Lot Idn	Feet From 25	N/S Line N	Feet From 660	E/W Line E	County Eddy
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**11. Bottom Hole Location If Different From Surface**

UL - Lot P	Section 15	Township 23S	Range 26E	Lot Idn	Feet From 330	N/S Line S	Feet From 660	E/W Line E	County Eddy
12. Dedicated Acres 160.00	13. Joint or Infill	14. Consolidation Code	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**

	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><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></p> <p>E-Signed By:           Randy Bolles Title:                    Manager, Regulatory Affairs Date:                    8/26/2014</p> <hr/> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><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></p> <p>Surveyed By:           Filimon Jaramillo Date of Survey:        10/27/2013 Certificate Number:    12797</p>
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Form APD Comments

Permit 191478

**PERMIT COMMENTS**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102		API Number: 30-015-42610
		Well: BOSS HOGG 15 STATE COM #004H

  

Created By	Comment	Comment Date
Igood	Pressure Control Equipment: A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2. A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is	8/26/2014
Igood	Auxiliary Well Control and Monitoring Equipment: a. A Kelly cock will be in the drill string at all times. b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.	8/26/2014
Igood	Casing Notes: All casing is new and API approved Maximum Lateral TVD: 6781' A pilot hole will be drilled to 7015' and plugged back with the cement volumes below.	8/26/2014
Igood	Proposed mud Circulations System: Depth Mud Weight Viscosity Fluid Loss Type System 0-620' 8.4-9.0 30-34 N/C FW 620-1950' 10.0 28-32 N/C Brine 1950-13873' 8.6-9.0 28-32 N/C FW The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.	8/26/2014
Igood	TOC for all Strings: Surface @ 0' Intermediate @ 0' Production @ 1450' Notes: • Cement volumes Surface 100%, Intermediate 50%, Pilot Hole 10%, and Production based on at least 25% excess • Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data • If lost circulation is encountered while drilling the production and/or the intermediate wellbores, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionate!	8/26/2014
Igood	Logging, Coring, and Testing Program: a. Drill stem tests will be based on geological sample shows. b. If a drill stem test is anticipated, a procedure, equipment to be used, and safety measures will be provided via sundry notice to the BLM. c. Resistivity and porosity logs are planned below the intermediate casing point. Stated logs run will be named in the Completion Report and submitted to the BLM d. No coring program is planned e. Additional Testing will be initiated subsequent to setting the production casing. Specific intervals will be targeted based on log evaluation, geological sample	8/26/2014
Igood	Potential Hazards: a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area, and none is anticipated to be encountered. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation being used to drill this well. Estimated BHP: 3033 psi, and estimated BHT: 116 degrees. b. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production string	8/26/2014
Igood	Anticipated Starting Date and Duration of Operations: a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 20 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.	8/26/2014
CSHAPARD	Land s/S	8/26/2014

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Form APD Conditions

Permit 191478

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102		API Number: 30-015-42610
		Well: BOSS HOGG 15 STATE COM #004H
OCD Reviewer	Condition	
CSHAPARD	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	