

**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) 476-3462

**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 201236

**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 314247		3. API Number 30-025-42474
5. Property Name NORTH THISTLE 15 10 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
F	15	23S	33E		2632	N	1982	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	10	23S	33E	C	330	N	1732	W	Lea

**9. Pool Information**

BRINNINSTOOL;BONE SPRING	7320
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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 3714
16. Multiple N	17. Proposed Depth 17722	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 8/1/2015
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	1400	1230	0
Int1	12.25	9.625	40	4300	1090	0
Int1	12.25	9.625	40	5200	430	0
Prod	8.75	7	29	9700	310	0
Prod	8.75	5.5	17	17722	2080	5000

**Casing/Cement Program: Additional Comments**

13-3/8" surface: Lead w/680sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW NaCL + 0.125 #/sx Poly-E-Flake; 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx; Tail w/550sx Cl C Cmt + 0.125 #/sx Poly-E-Flake; TOC @ surface. 9-5/8" Intermediate: Lead w/1090sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW NaCL + 0.125 #/sx Poly-E-Flake; 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx; Tail w/430sx Cl C Cmt + 0.125 #/sx Poly-E-Flake; TOC @ surface. 7 x 5-1/2" Combo Prod: Lead w/310sx Tuned Light @ + 0.125 #/sx Pol-E-Flake; 10.4 ppg, H2O: 10.4 gal/sx, Yld. 3.17 cf/sx; See Comments Section for additional cement details.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
Double Ram	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: _____ Printed Name: Electronically filed by Randy Bolles Title: Manager, Regulatory Affairs Email Address: randy.bolles@dmv.com Date: 3/12/2015	<b>OIL CONSERVATION DIVISION</b>  Approved By: Paul Kautz Title: Geologist Approved Date: 3/12/2015 Expiration Date: 3/12/2017 Conditions of Approval Attached
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Phone: 405-228-8588

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 201236

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-42474	2. Pool Code 7320	3. Pool Name BRINNINSTOOL;BONE SPRING
4. Property Code 314247	5. Property Name NORTH THISTLE 15 10 STATE COM	6. Well No. 001H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3714

**10. Surface Location**

UL - Lot F	Section 15	Township 23S	Range 33E	Lot Idn	Feet From 2632	N/S Line N	Feet From 1982	E/W Line W	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot C	Section 10	Township 23S	Range 33E	Lot Idn	Feet From 330	N/S Line N	Feet From 1732	E/W Line W	County Lea
12. Dedicated Acres 240.00	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: 3/12/2015</p>
	<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: 2/24/2015 Certificate Number: PLS 12797</p>

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Form APD Comments

Permit 201236

**PERMIT COMMENTS**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42474
	Well: NORTH THISTLE 15 10 STATE COM #001H

Created By	Comment	Comment Date
dcook	Pilot Hole depth: 10,500'; KOP ft = 9,862'. Plug Top: 9,662'; Plug Bottom: 10,500'. Pump: 325sx CI H + 0.5% BWOC HR-601 + 0.2% Halad-9, 10 % Excess, 15.6 ppg, H2O: 5.42 gal/sx; Yld. 1.19 cf/sx; KOP @ 9,862'.	3/12/2015
dcook	7 x 5-1/2" Combo Production Continued: Pump Tail w/2080sx (50:50) CI H Cmt: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bent, 14.5 ppg, H2O: 5.31 gal/sx, Yld. 1.2 cf/sx; TOC @ 5,000'.	3/12/2015
dcook	BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.	3/12/2015
dcook	Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.	3/12/2015
dcook	Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.	3/12/2015

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Form APD Conditions

Permit 201236

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42474
	Well: NORTH THISTLE 15 10 STATE COM #001H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
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
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water