

**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) 334-8170  
**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 230769

**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 30884		3. API Number 30-025-43541
5. Property Name THISTLE UNIT		6. Well No. 102H

**7. Surface Location**

UL - Lot	P	Section	34	Township	23S	Range	33E	Lot Idn	P	Feet From	185	N/S Line	S	Feet From	430	E/W Line	E	County	Lea
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**8. Proposed Bottom Hole Location**

UL - Lot	A	Section	22	Township	23S	Range	33E	Lot Idn	A	Feet From	330	N/S Line	N	Feet From	380	E/W Line	E	County	Lea
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**9. Pool Information**

TRIPLE X;BONE SPRING	59900
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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 3638
16. Multiple N	17. Proposed Depth 24810	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/5/2017
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	1350	2560	0
Int1	12.25	9.625	40	4300	0	0
Int1	12.25	9.625	40	5100	1490	0
Prod	8.75	5.5	17	24810	3950	4900

**Casing/Cement Program: Additional Comments**

13-3/8" Surface Two Stage Cement as follows: 460 sks 12.9 9.81 1.85 14 1st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake 550 14.8 6.32 1.33 6 1st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake. DV Tool = 300ft. 320 14.8 6.32 1.33 6 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake. See Drilling Plan to be submitted via FedEx.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
Double Ram	3000	3000	
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@dvn.com Date: 1/12/2017	<b>OIL CONSERVATION DIVISION</b>  Approved By: Paul Kautz Title: Geologist Approved Date: 1/21/2017 Expiration Date: 1/21/2019 Conditions of Approval Attached
Phone: 405-228-8588	

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**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 230769

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-43541	2. Pool Code 59900	3. Pool Name TRIPLE X;BONE SPRING
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 102H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3638

**10. Surface Location**

UL - Lot P	Section 34	Township 23S	Range 33E	Lot Idn P	Feet From 185	N/S Line S	Feet From 430	E/W Line E	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot A	Section 22	Township 23S	Range 33E	Lot Idn A	Feet From 330	N/S Line N	Feet From 380	E/W Line E	County Lea
12. Dedicated Acres 480.00	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: 1/12/2017</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: 1/12/2017 Certificate Number: 4713C</p>

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**Santa Fe, NM 87505**

Form APD Comments

Permit 230769

**PERMIT COMMENTS**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102		API Number: 30-025-43541
		Well: THISTLE UNIT #102H
Created By drebecca	Comment See Drilling Plan to be submitted via FedEx.	Comment Date 1/12/2017

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Form APD Conditions

Permit 230769

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-43541
	Well: THISTLE UNIT #102H

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
pkautz	1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.
pkautz	
pkautz	Must submit Gas Capture Plan