

**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 175914

**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 30-025-41468
5. Property Name THISTLE UNIT		6. Well No. 064H

**7. Surface Location**

UL - Lot O	Section 22	Township 23S	Range 33E	Lot Idn O	Feet From 450	N/S Line S	Feet From 2150	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 660	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 3692
16. Multiple N	17. Proposed Depth 16215	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 11/18/2013
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	1325	1220	0
Int1	12.25	9.625	40	5250	1570	0
Prod	8.75	5.5	17	16215	2295	4650

**Casing/Cement Program: Additional Comments**

13-3/8" Surface Lead w/670 sx Cl C cmt + 0.25 #/sx Poly-E-Flake + 4% bwoc Bent + 70.8% FW, 13.5 ppg, Yld: 1.75 cf/sk. Water Requirement: 9.07 gal/sx. Mix Water Volume: 145bbls. TOC @ surface. Tail w/550 sx Cl C cmt + 1% bwoc CaCl2 + 0.125 #/sx Poly-E-Flake + 63.1% FW, 14.8 ppg, Yld: 1.34 cf/sk. 9-5/8" Intermediate Lead w/1140 sx (65:35) Cl C cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW CaCl + 0.125 #/sx Poly-E-Flake + 70.9 % FW, 12.9 ppg, Yld: 1.85 cf/sx. Water Requirement: 9.81gal/sx. Mix Water Volume: 266bbls. TOC @ surface. Tail w/430 sx Cl C cmt + 0.125 #/sx Poly-E-Flake + 63.9% FW, 14.8 ppg, Yld: 1.33 cf/sx. Water Requirement: 6.32 gal/sx. Mix Water Volume: 65bbls. 5-1/2" Production Lead #1 w/550 sx (50:50) Cl H cmt: Poz (Fly Ash) + 10% BWOC Bent + 1 #/sx of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% FW, 11.9 ppg, Yld: 2.26 cf/sx. Water Requirement: 12.89 gal/sx. Mix Water Volume: 169bbls. TOC @ 4650ft.

**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:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Randy Bolles Title: Manager, Regulatory Affairs Email Address: randy.bolles@dvn.com Date: 10/24/2013	Approved By: Paul Kautz Title: Geologist Approved Date: 10/25/2013 Conditions of Approval Attached
Phone: 405-228-8588	Expiration Date: 10/25/2015

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 175914

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-41468	2. Pool Code 59900	3. Pool Name TRIPLE X;BONE SPRING
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 064H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3692

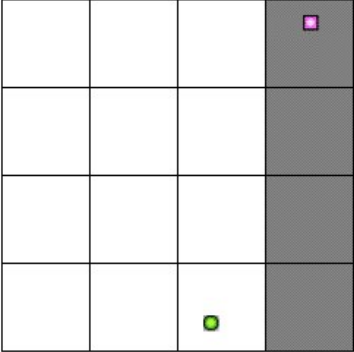
**10. Surface Location**

UL - Lot O	Section 22	Township 23S	Range 33E	Lot Idn	Feet From 450	N/S Line S	Feet From 2150	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 660	E/W Line E	County Lea
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: 10/24/2013</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: 10/7/2013 Certificate Number: PLS 12797</p>
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Form APD Comments

Permit 175914

**PERMIT COMMENTS**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-41468
	Well: THISTLE UNIT #064H

Created By	Comment	Comment Date
dcook	The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe. The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the intermediate casing shoe. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is	10/24/2013
dcook	Lead #2 w/325 sx (65:35) CI H cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake + 74.1 % FW, 12.5 ppg, Yld: 1.95 cf/sx. Water Requirement: 10.79 gal/sx. Mix Water Volume: 84bbls. Tail w/1420 sx (50:50) CI H cmt: Poz (Fly Ash) + 1 #/sx CaCL + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, Yld: 1.22 cf/sx. Water Requirement: 5.38 gal/sx. Mix Water Volume: 182bbls.	10/24/2013
dcook	out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.	10/24/2013
pkautz	Land s/S	10/25/2013

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Form APD Conditions  
Permit 175914

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-41468
	Well: THISTLE UNIT #064H

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	Surface casing must be set 25' below top of Rustler Formation in order to seal off protectable water