<u>District I</u> 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

Revised July 18, 2013 Permit 171665

Form C-101

1220 S. St Francis Dr. Santa Fe, NM 87505

APPLICATION FOR	R PERMIT TO DRILL	RE-ENTER DEI	FDFN DITICRACK	OR ADD A ZONE

DEVON ENERGY PR	Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP			
	Sheridan Avenue a City, OK 73102	3. API Number 30-025-41341		
4. Property Code	5. Property Name	6. Wett No.		
30884	THISTLE UNIT	057H		

7. Surface Location

77	7. Surface Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
0	22	238	33E	0	150	S	2150	E	LEA	l

8. Proposed Bottom Hole Location

	OF THE POST OF THE									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
0	27	228	33E	0	330	S	1980	E	Lea	

9. Pool Information

TRIPLE X;BONE SPRING	59900

Additional Well Information

11. Work Type New Well	12. Weit Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3689	
16. Multiple N	17. Proposed Depth 16120	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date	
Depth to Ground	water	Distance from nearest fresh water w	rel1	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 Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1350	1230	0
Int1	12.25	9.625	40	5150	1530	0
Prod	8.75	5.5	17	16120	1420	4650
Prod	8.75	5.5	17	10550	820	0

Casing/Cement Program: Additional Comments

13 3/8" Surface: Lead w/680 sx Cl C Cmt + 2% bwoc CaCl2 + 0.125 #/sx Poly-E-Flake + 4% bwoc Bent + 70.1% FW, 13.5 ppg, Yld 1.75 cf/sx; 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/sx. TOC @ surface. 9-5/8" Intermediate: Lead w/1100 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. Tail w/430 sx Cl C Cmt + 0.125 #/sx Poly-E-Flake + 63.9% FW, 14.8 ppg, 1.33 cf/sx. TOC @ surface. 5 1/2" Production: Lead #1 w/490 sx(50:50) Cl H Cmt:Poz(Fly Ash) + 10% BWOC Bent + 0.15% SA-1015 + 0.1% BWOC HR-601 + 0.25 #/sx D-Air 5000 + 80.01% FW, 11.5 ppg, Yld 2.57 cf/sx; Lead #2 w/330 sx(65:35) Cl 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 1.96 cf/sk. Tail w/1420 sx (50:50) C1 H Cmt:Poz(Fty 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 1.21

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2000	2000	
DoubleRam	3000	3000	

best of my knowledge and belief.	ation given above is true and complete to the	OIL CONSERVATION DIVISION				
further certify I have complied with 19.15.14.9 (A) NMAC 🛛 and/or 19.15.14.9 (B) NMAC 🗒 if applicable.		Approved By: Paul Kautz		Approved By: Paul Kautz		
Signature:	And the second s					
Printed Name: Electronically	filed by Randy Bolles	Title: Geologist	cm s = 1107;00			
Title: Manager, Regulatory Affairs		Approved Date: 8/15/2013	Expiration Date: 8/15/2015			
Email Address: randy.bolles@dvn.com		440 Library	250 95			
Date: 8/14/2013	Phone: 405-228-8588	Conditions of Approval Attached				

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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr.

Form C-102 August 1, 2011

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

Santa Fe, NM 87505 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

	VELLE LOCATION ALLE ACID	MOL DEDICATION IL	
1. API Number 30-025-41341	2. Pool Code 59900	3. Pool Name TRIPLE X;BONE SPRING	
4. Property Code 30884	5. Property 1 THISTLE I		6. Well No. 057H
7. OGRID No. 6137	8. Operator 1 DEVON ENERGY PRODUC		9. Elevation 3689

10 9	Jurfac	o I oc	ation

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	22	238	33E		150	S	2150	E	LEA

11. Bottom Hole Location If Different From Surface

	THE DOWN AND DESIGNATION OF THE SHARE									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
0	27	238	33E	0	330	S	1980	E	LEA	
12. Dedicated Acres 160.00		13. J	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

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(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.

E-Signed By: Randy Bolles Title: Manager, Regulatory Affairs

Date: 8/14/2013

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.

Surveyed By: Filimon Jaramillo Date of Survey: 7/31/2013 Certificate Number: PLS 12797

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137 Well: THISTLE UNIT #057H

API: 30-025-41341

Created By	Comment	Comment Date			
dcook	Contingency Plan For loss of Circulation - Production 1St STAGE: Lead w/580 sx(50:50) CI H Cmt:Poz (Fly Ash) + 10% BWOC Bent + 0.15% SA-1015 + 0.1% BWOC HR-801 + 0.25 #/sx D-Air 5000 + 80.01% FW, 11.5 ppg, Yld 2.57 cf/sk. 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-801 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, Yld 1.21 cf/sx. TOC @ surface.				
doook	2nd STAGE (DV tool @ 6000 ft) Lead w/130 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 1.98 cf/sx; Tail w/120 sx CI C Cmt + 63.9% FW, 14.8 ppg, Yld 1.33 cf/sx. TOC @ 4650'				
doook	The above cement volumes based on at least Surface 100% excess, Intermediate 75% excess and Production is 25% excess. Actual cement volumes to be adjusted based on fluid caliper and/or caliper log data.				
dcook	If lost circulation is encountered while drilling the production wellbore, a DV tool and ECP will be installed a minimum of 50° below the previous casing shoe and a maximum of 200° above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.				
doook	The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 2M system prior to drilling out the casing shoe. The BOP system used to drill the 12-1/4" and 8-3/4" holes 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 casing shoe. The piper rams will be operated and checked as per Onshore Order No 2. A 2" kill line and 3" choke line will be incorporated in				
dcook	to 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.				
doook	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); if an H&P rig drills this well. Otherwise no flex line is needed. The line will be kept as straight as possible with minimal turns.				
dcook	A Closed Loop system will be ulitized. See attached plan.	8/14/2013			
DMULL	S/s checked by DM	8/15/2013			

Permit Conditions of Approval

Operator: DEVON ENERGY PRODUCTION COMPANY, LP, 6137

Well: THISTLE UNIT #057H

API: 30-025-41341

OCD Reviewer	Condition
DMULL	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
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	In order to seal off protectable water, surface casing must be set 25' below top of Rustler Anhydrite