<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
<u>District II</u>

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

Revised July 18, 2013

Permit 171669

Form C-101

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

1. Operator	Name and Address	2. OGRID Number	
DEVON ENERGY PRO	6137		
A Property of the	heridan Avenue City, OK 73102	3. API Number	
Oklahonia	City, OK 75102	30-025-41342	
4. Property Code	5. Property Name	6. Well No.	
30884 THISTLE UNIT		058H	

7 Surface Location

55	100	2		7.0	diffice Loc	ution	300	0 (0)		
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	2100	E	LEA	l

8. Proposed Bottom Hole Location

1					1100000	L DOTTOIL LE	ore motures	-		
21	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	P	27	238	33E	P	330	S	660	E	Lea

9. Pool Information

TRIPLE X;BONE SPRING	59900

Additional Well Information

11. Work Type New Well				15. Ground Level Elevation 3689
16. Multiple 17. Proposed Dep N 16319		18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date
Depth to Ground	water	Distance from nearest fresh water w	vell	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	10550	820	0
Prod	8.75	5.5	17	16319	1470	4650

Casing/Cement Program: Additional Comments

13 3/8" Surface: Lead w/680 sx Cl C Cmt + 2% bwoc CaCl2 + 0.125 #lsx 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 #lsx 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 #lsx Poly-E-Flake + 70.9% FW, 12.9 ppg, Yld 1.85 cf/sx; Tail w/430 sx Cl C Cmt + 0.125 #lsx Poly-E-Flake + 63.9% FW, 14.8 ppg, Yld 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 #lsx D-Air 5000 + 80.01% FW, 11.5 ppg, Yld 2.57 cf/sx. Lead #2 w/330sx(65:35) Cl H Cmt:Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #lsx Poly-E-Flake + 74.1% FW, 12.5 ppg, Yld 1.96 cf/sx; Tail w/1470 sx(50:50)Cl H Cmt:Poz(Fly Ash) + 1 #lsx 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.	on given above is true and complete to the	OIL CONSERV	VATION DIVISION		
I further certify I have complied w 19.15.14.9 (B) NMAC ⊠, if applic	rith 19.15.14.9 (A) NMAC 🛮 and/or able.	Approved By: Paul Kautz			
Signature:					
Printed Name: Electronically f	iled by Randy Bolles	Title: Geologist			
Title: Manager, Regulatory Af	fairs	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

Form C-102 August 1, 2011

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41342	2. Pool Code 59900	3. Pool Name TRIPLE X;BONE SPRING	
4. Property Code 30884	5. Property THISTLE		6. Well No. 058H
7. OGRID No. 6137	8. Operator DEVON ENERGY PRODUC		9. Elevation 3689

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	22	238	33E		150	S	2100	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	27	238	33E	P	330	S	660	E	LEA
	cated Acres	13. J	oint 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 #058H

API: 30-025-41342

Created By	Comment	Comment Date
dcook	The surface fresh water sands will be protected by setting 13-3/8" casing at 1,350" and circulating cement back to surface. The fresh water sands will be protected by setting 9-5/8" casing at 5,150" and circulating cement to surface. The Delaware intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement above the base of the 9-5/8" casing. All casing is new and API approved.	8/14/2013
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, YId 2.57 cf/sx; Tail w/1470 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, YId 1.21 cf/sx.	8/14/2013
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 1.96 cf/sx; Tail w/120 sx CI C Cmt + 63.9% FW, 14.8 ppg, Yld 1.33 cf/sx. TOC @ 4650'	8/14/2013
dcook	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. 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.	8/14/2013
dœok	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.	8/14/2013
dcook	The pipe rams will be operated and checked as per Onshore Order No 2. 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.	8/14/2013
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.	8/14/2013
doook	A Closed Loop system will be utilized. 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 #058H

API: 30-025-41342

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 Anhydite