

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) 749-1283 Fax:(575) 749-9720
District III
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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 198863

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
		3. API Number 30-025-42381
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 066H

7. Surface Location

UL - Lot M	Section 34	Township 23S	Range 33E	Lot Idn	Feet From 81	N/S Line S	Feet From 1250	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot L	Section 27	Township 23S	Range 33E	Lot Idn L	Feet From 2632	N/S Line S	Feet From 1250	E/W Line W	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 3633
16. Multiple N	17. Proposed Depth 17271	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/25/2015
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	40	1350	1190	0
Int1	12.25	9.625	40	4300	1030	0
Int1	12.25	9.625	40	5000	430	0
Prod	8.75	5.5	17	17272	2840	4500

Casing/Cement Program: Additional Comments

13-3/8" Surface: Lead w/640sx (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. 1.85ft3/sx; Tail w/550sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx. TOC @ surface. 9-5/8" Intermediate: Lead w/1030sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW CaCl2 + 0.125 #/sx Poly-E-Flake, 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 ft3/sx; Tail w/430sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx. TOC @ surface. 5-1/2" Production: 1st Lead w/350sx (50:50) Cl H Cmt: Poz (Fly Ash) + 10% BWOC Bent + 1 #/sx of Kol-Seal + 0.3% BWOC HR-601 + 0.5 #/sx D-Air 5000, 11.9 ppg, H2O: 12.89 gal/sx, Yld. 2.31 ft3/sx; 2nd Lead w/330sx (65:35) Cl H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake, 12.5 ppg, H2O: 10.86 gal/sx, Yld. 1.96 ft3/sx; *See Comments for continuation of production cement program.

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@dvn.com Date: 1/22/2015	OIL CONSERVATION DIVISION Approved By: Paul Kautz Title: Geologist Approved Date: 1/22/2015 Expiration Date: 1/22/2017 Conditions of Approval Attached
Phone: 405-228-8588	

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Form C-102
 August 1, 2011
 Permit 198863

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42381	2. Pool Code 59900	3. Pool Name TRIPLE X;BONE SPRING
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 066H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3633

10. Surface Location

UL - Lot M	Section 34	Township 23S	Range 33E	Lot Idn	Feet From 81	N/S Line S	Feet From 1250	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot L	Section 27	Township 23S	Range 33E	Lot Idn	Feet From 2632	N/S Line S	Feet From 1250	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>OPERATOR CERTIFICATION</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: 1/22/2015</p>
	<p>SURVEYOR CERTIFICATION</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: Richard Brooks Date of Survey: 12/1/2014 Certificate Number: 20451</p>

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PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42381 <hr/> Well: THISTLE UNIT #066H
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Created By	Comment	Comment Date
dcook	5-1/2" Production cement program continued: Tail w/2160sx (50:50) Cl 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 ft3/sx. TOC @ 4500'	1/21/2015
dcook	13-3/8" Surface Two Stage Option: Lead w/420sx (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 ft3/sx; 1st Stage Tail w/550sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx; DV Tool @ 300ft. 2nd Stage Primary w/320sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx. TOC @ 2 stage: surface.	1/21/2015
dcook	5-1/2" Production Two Stage Option: 1st Stage Lead w/650sx (65:35) Cl H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake, 12.5 ppg, H2O: 10.86 gal/sx, Yld. 1.96 ft3/sx; 1st Stage Tail w/2160sx (50:50) Cl 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 ft3/sx; DV Tool @ 5100ft. 2nd Stage Lead w/50sx (50:50) Cl H Cmt: Poz (Fly Ash) + 10% BWOC Bent + 1 #/sx of Kol-Seal + 0.3% BWOC HR-601 + 0.5 #/sx D-Air 5000, 11.9 ppg, H2O: 12.89 gal/sx, Yld. 2.31 ft3/sx; 2nd Stage Tail w/50sx Cl	1/21/2015
dcook	5-1/2" Production Two Stage Option continued: 2nd Stage Tail w/50sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx. TOC @ 2nd stage: 4500ft.	1/21/2015
dcook	7 x 5-1/2" Combo Production Option: Lead w/270sx Tuned Light @ + 0.125 #/sx Pol-E-Flake, 10.4 ppg, H2O: 16.9 gal/sx, Yld. 3.17 ft3/sx; Tail w/2160sx (50:50) Cl 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 ft3/sx. TOC @ 4500ft.	1/21/2015
dcook	7 x 5-1/2" Combo Production Two Stage Option: 1st Stage Lead w/390sx (65:35) Cl H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake, 12.5 ppg, H2O: 10.86 gal/sx, Yld. 1.96 ft3/sx; 1st Stage Tail w/2160sx (50:50) Cl 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 ft3/sx; DV Tool = 5100ft	1/21/2015
dcook	7 x 5-1/2" Combo Production Two Stage Option Continued: 2nd Stage Lead w/20sx Tuned Light @ + 0.125 #/sx Pol-E-Flake, 10.4 ppg, H2O: 16.9 gal/sx, Yld. 3.17 ft3/sx; 2nd Stage Tail w/30sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 ft3/sx. TOC @ 2 stage: 4500ft.	1/21/2015
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.	1/21/2015
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.	1/21/2015
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.	1/21/2015
dcook	After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days.	1/21/2015
dcook	After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.	1/21/2015
dcook	The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is 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.	1/21/2015
dcook	Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.	1/21/2015

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Form APD Conditions

Permit 198863

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42381
	Well: THISTLE UNIT #066H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Will require a administrative order for non-standard location prior to placing the well on production.
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 & INTERNEMATE 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