

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 176576

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 30-025-41488
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 055H

7. Surface Location

UL - Lot M	Section 22	Township 23S	Range 33E	Lot Idn	Feet From 150	N/S Line S	Feet From 660	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 27	Township 23S	Range 33E	Lot Idn M	Feet From 330	N/S Line S	Feet From 660	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 3701
16. Multiple N	17. Proposed Depth 16146	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 12/22/2013
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	1350	1250	0
Int1	12.25	9.625	40	5250	1570	0
Prod	8.75	5.5	17	16146	2270	4750

Casing/Cement Program: Additional Comments

13-3/8" Surface: Lead: 690 sx Cl C Cmt + 0.25 #/sx Poly-E-Flake + 4% bwoc Bent + 70.8% FW, 13.5 ppg, Yld: 1.75 cf/sx. TOC @ surface. Tail: 560 sx Cl C Cmt + 0.125 #/sx Poly-E-Flake + 63.1% FW, 14.8 ppg, Yld: 1.33 cf/sx. 9-5/8" Intermediate: Lead: 1140 sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW Sodium Chloride + 0.125 #/sx Poly-E-Flake + 70.9% FW, 12.9 ppg, Yld: 1.85 cf/sx. TOC @ surface. Tail: 430 sx Cl C Cmt + 0.125 #/sx Poly-E-Flake + 63.9% FW, 14.8 ppg, Yld: 1.33 cf/sx. 5-1/2" Production: Lead #1: 550 sx (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 + 76.4% FW, 11.9 ppg, Yld: 2.26 cf/sx. TOC @ 4750ft.


22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
Double Ram	3000	3000	

<p>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.</p> <p>Signature:</p> <p>Printed Name: Electronically filed by Randy Bolles</p> <p>Title: Manager, Regulatory Affairs</p> <p>Email Address: randy.bolles@dmv.com</p> <p>Date: 11/6/2013</p>	<p style="text-align: center;">OIL CONSERVATION DIVISION</p> <p>Approved By: Paul Kautz</p> <p>Title: Geologist</p> <p>Approved Date: 11/6/2013</p> <p>Expiration Date: 11/6/2015</p> <p>Conditions of Approval Attached</p>
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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: 11/6/2013

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: 10/16/2013
Certificate Number: PLS 12797

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Form APD Comments

Permit 176576

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-41488
	Well: THISTLE UNIT #055H

Created By	Comment	Comment Date
dcook	Lead #2: 330 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. Tail: 1390 sx (50:50) CI H Cmt: Poz (Fly Ash) + 1 #/sx Sodium Chloride + 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.	11/6/2013
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.	11/6/2013
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. 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 possib	11/6/2013

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Form APD Conditions

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PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-41488
	Well: THISTLE UNIT #055H

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 the top of the Rustler Anhydrite in order to seal off protectable water.