

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

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

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 20 N Broadway Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-025-39576
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 016

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	27	23S	33E	E	1360	N	1100	W	LEA

8. Pool Information

JOHNSON RANCH;WOLFCAMP (GAS)	79335
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3705
14. Multiple N	15. Proposed Depth 14200	16. Formation Wolfcamp	17. Contractor	18. Spud Date 1/1/2010
Depth to Ground water 225		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

19. 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	1355	1070	0
Int1	12.25	9.625	40	5300	1555	0
Int2	8.75	7.625	39	12200	555	4800
Prod	6.5	5	23.2	14200	355	11900

Casing/Cement Program: Additional Comments

Cmt 13 3/8" with Lead 770 sx 35:65 Poz Premium Plus C; yield 1.96 cf/sx. Tail with 300 sx Prem Plus C; yield 1.35 cf/sx. Cmt 9 5/8" with Lead 1255 sx 50:50 Poz Prem Plus C; yield 2.24 cf/sx. Tail with 300 sx 60:40 Prem Plus C; yield 1.37 cf/sx. Cmt 7 5/8" 1st stage: Lead 220 sx 50:50 Poz; yield 2.3 cf/sx. Tail with 335 sx 15:61:11 Prem Plus C; yield 1.56 cf/sx DV tool at ~8000'. 2nd stage: Lead 205 sx 35:65 Poz Class H; yield 1.95 cf/sx. Tail with 150 sx 60:40 Poz Class H; yield 1.34 cf/sx. Cmt 5" liner with 420 sx 50:50 Poz H; yield 1.27 cf/sx. Mud program: 0-1355', 8.4-9.0, visc 32-34, N/C fluid loss, FW/Gel. 1355-5300', 8.8-9.2, visc 28-30, N/C, Brine. 5300-12,200', 8.6-9.0, visc 28, N/C, Brine. 12,200-14,200', 10.0-13, visc 32-40, NC-12cc, Brine.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
DoubleRam	5000	5000	
Hydril	5000	5000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Randy Bolles	Approved By: Paul Kautz	
Title:	Title: Geologist	
Email Address: randy.bolles@dvn.com	Approved Date: 11/23/2009	Expiration Date: 11/23/2011
Date: 11/5/2009	Phone: 405-228-8588	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 79335	Pool Name Johnson Ranch; Wolfcamp (Gas)
Property Code 30884	Property Name THISTLE UNIT	Well Number 16
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3705'

Surface Location

UL or lot No. E	Section 27	Township 23 S	Range 33 E	Lot Idn	Feet from the 1360	North/South line NORTH	Feet from the 1100	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	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>SURFACE LOCATION Lat - N 32°16'45.16" Long - W 103°33'54.70" NMSPCE - N 486160.083 E 778730.474 (NAD-83)</p>	<p>OPERATOR CERTIFICATION</p> <p>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 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.</p> <p><i>Norvella Adams</i> 11/5/09 Signature Date</p> <p>Norvella Adams Printed Name</p>	
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p>	
	<p>DATE SURVEYED 11/5/09</p> <p>SIGNATURE <i>[Signature]</i></p> <p>PROFESSIONAL SURVEYOR 7977</p>	
	<p>Certificate No. <i>100-48</i></p> <p>Certified by <i>Cory L. Jones</i> 7977</p> <p>BASIN SURVEYS</p>	

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: THISTLE UNIT #016

API: 30-025-39576

Created By	Comment	Comment Date
DMULL	OCD Hobbs has received form C-144, "Pit Registration". OCD Permit Number P1-01514.	11/23/2009
DMULL	OCD Hobbs has received form C-102 hard copy showing 320 acres, W/2 dedicated to this well in pool Johnson Ranch Wolfcamp (Gas).	11/23/2009