

**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 <b>DEVON ENERGY PRODUCTION COMPANY, LP</b> 20 N Broadway Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-025-39575
4. Property Code 30884	5. Property Name <b>THISTLE UNIT</b>	6. Well No. 013H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	22	23S	33E	M	660	S	1310	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 3699
14. Multiple N	15. Proposed Depth 16750	16. Formation Wolfcamp	17. Contractor	18. Spud Date 1/1/2010
Depth to Ground water		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	13000	910	4800
Prod	6.5	5	23.2	16750	420	12700

**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. 5300-9000', 8.6-9.0, visc 28, N/C, Brine. 9,000-13,000', 9.0-10.5, visc 32-40, NC-12cc, Brine. 13,000'-16,759', 10-13, visc 33-50, 9-12cc, Polymer/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"/> .	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Randy Bolles	Approved By: Paul Kautz
Title:	Title: Geologist
Email Address: randy.bolles@dmn.com	Approved Date: 11/23/2009      Expiration Date: 11/23/2011
Date: 11/16/2009      Phone: 405-228-8588	Conditions of Approval Attached

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

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

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

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 13H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3699'

Surface Location

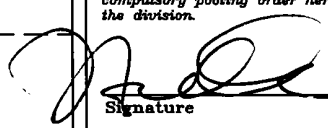
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	23 S	33 E		660	SOUTH	1310	WEST	LEA

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
C	22	23 S	33 E		1310	NORTH	1980	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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>GRID N: 472794.161 GRID E: 777558.584 LATITUDE: 32°17'50.891" LONGITUDE: -103°34'07.794"</p>	<p><b>BOTTOM HOLE LOCATION</b> Lat - N32°17'37.91" Long - W103°33'44.66" SPC- N.: 471496.842 E.: 779553.312 (NAD-83)</p>	<p>GRID N: 472827.197 GRID E: 782860.926 LATITUDE: 32°17'50.840" LONGITUDE: -103°33'06.019"</p>	<p><b>OPERATOR CERTIFICATION</b>  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.   Signature 11/5/09 Date  Norvella Adams Printed Name</p>
<p>GRID N: 467513.884 GRID E: 777519.715 LATITUDE: 32°16'58.638" LONGITUDE: -103°34'07.521"</p>	<p><b>SURFACE LOCATION</b> Lat - N32°17'05.14" Long - W103°33'52.30" SPC- N.: 468180.753 E.: 778921.806 (NAD-83)</p>	<p>GRID N: 470188.687 GRID E: 782879.309 LATITUDE: 32°17'24.730" LONGITUDE: -103°33'06.029"</p>	<p><b>SURVEYOR CERTIFICATION</b>  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.  DECEMBER 19, 2008 Date Surveyed Signature &amp; Seal of Surveyor Professional Surveyor W. L. Jones 2087 Certificate No. Gary L. Jones 7977  BASIN SURVEYS</p>

## Permit Comments

**Operator:** DEVON ENERGY PRODUCTION COMPANY, LP , 6137

**Well:** THISTLE UNIT #013H

**API:** 30-025-39575

Created By	Comment	Comment Date
DMULL	OCD is returning this intent to drill for corrections. Please check footage of the surface and bottomhole that you have ONLINE. They are different to the one's that are on the C-102 tif. After corrections are made you may resubmit.	11/16/2009
DMULL	OCD Hobbs has received form C-144 "Pit Registration". OCD Permit Number P1-01513.	11/23/2009
DMULL	OCD Hobbs has received form C-102 hard copy of well location and bottomhole location. 320 acres, W/2	11/23/2009

## Permit Conditions of Approval

**Operator:** DEVON ENERGY PRODUCTION COMPANY, LP , 6137

**Well:** THISTLE UNIT #013H

**API:** 30-025-39575

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104