

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 30-025-39388
4. Property Code 30884	5. Property Name THISTLE UNIT	6. Well No. 014

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	22	23S	33E	P	660	S	1310	E	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 3688
14. Multiple N	15. Proposed Depth 17000	16. Formation Wolfcamp	17. Contractor	18. Spud Date 6/1/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic ☐ mls thick Clay ☐ Pit Volume: bbls Drilling Method: Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

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	17000	435	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 435 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-40cc, Brine. 9000-13,000', 9.0-10.5, visc 32-40, NC-12cc, Brine. 13,000-17,000', 10-13, visc 33-50, 9-12 cc, 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 ☐ , a general permit ☐ , or an (attached) alternative OCB-approved plan ☐ .	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: 4/9/2009 Expiration Date: 4/9/2011
Date: 4/2/2009 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., Artesia, NM 87410

DISTRICT IV

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

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised October 12, 2005Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesOIL 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
Property Code	Property Name THISTLE UNIT	Well Number 14H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3688'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	23 S	33 E		660	SOUTH	1310	EAST	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
A	22	23 S	33 E		1050	NORTH	660	EAST	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

GRID N: 472794.151 GRID E: 777558.584 LATITUDE: 32°17'50.891" LONGITUDE: -103°34'07.794"	BOTTOM HOLE LOCATION Lat - N32°17'40.45" Long - W103°33'13.70" SPC- N.: 471773.322 E.: 782208.846 (NAD-83)	GRID N: 472827.197 GRID E: 782860.926 LATITUDE: 32°17'50.840" LONGITUDE: -103°33'06.019"	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 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>[Signature]</i> 4/2/09 Signature Date Norvella Adams Printed Name
GRID N: 467513.884 GRID E: 777619.715 LATITUDE: 32°16'58.638" LONGITUDE: -103°34'07.521"	SURFACE LOCATION Lat - N32°17'05.10" Long - W103°33'21.27" SPC- N.: 468195.149 E.: 781585.157 (NAD-83)	GRID N: 470188.687 GRID E: 782878.309 LATITUDE: 32°17'24.730" LONGITUDE: -103°33'06.029"	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. DECEMBER 2, 2008 Date Surveyed Signature Professional Surveyor W.C. Jones Certificate No. Gary L. Jones 7977 Basin Surveys

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: THISTLE UNIT #014

API: 30-025-39388

Created By	Comment	Comment Date
ADAMSN	No H2S is expected in this area. A gas analysis and a Form C144 CLEZ will submitted under separate cover.	4/2/2009
DMULL	OCD received form C-144 "Pit Registration". OCD Permit Number P1-01025.	4/9/2009

Permit Conditions of Approval

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: THISTLE UNIT #014

API: 30-025-39388

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104
pkautz	Surface casing must be set 25' below top Rustler Anhydrite