

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 157037

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 30-015-40826
4. Property Code 39533	5. Property Name HARROUN TRUST 31	6. Well No. 004H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	31	23S	29E	O	330	S	1345	E	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	30	23S	29E	J	2310	S	1980	E	Eddy

9. Pool Information

HARROUN RANCH;DELAWARE	30212
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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 2958
16. Multiple N	17. Proposed Depth 13652	18. Formation Brushy Canyon	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

21. 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	48	375	415	0
Int1	12.25	9.625	40	2750	1869	0
Prod	8.75	5.5	17	13652	1950	2200
Prod	8.75	5.5	17	5600	1394	0

Casing/Cement Program: Additional Comments

13-3/8" Surf: 415 sx C1 C Cmt + 2% bwoc CalcChlor + 0.125 lbs/sk CF + 56.3% FW, 14.8 ppg, Yld: 1.35 cf/sk. TOC @ surf. 9-5/8" Inter: Lead: 1455 sx(35:65)Poz(Fly Ash):C1 C Cmt + 5% bwow SodiumChlor + 0.125 lbs/sk CF + 6% bwoc Bent + 107.8% FW, 12.6 ppg, Yld: 1.73 cf/sk, TOC @ Surf. Tail: 414 sx(60:40)Poz(Fly Ash):C1 C Cmt + 5% bwow SodiumChlor+0.125 lbs/sk CF+0.4% bwoc Sodium Metasil+4% bwoc MPA-5 + 64.7% Wtr, 13.8 ppg, Yld: 1.38 cf/sk. 5-1/2" Prod lead: 1014 sx (35:65)Poz(Fly Ash):C1 H Cmt+5% bwow SodiumChlor+0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bent + 0.6% bwoc SodiumMetasil + 0.5% bwoc FL-52A + 102.5% FW, 11.8 ppg, Yld: 2.30 cf/sk, 2nd Lead:380 sx(35:65)Poz(Fly Ash):C1 H Cmt + 3% bwow Sodium Chlor+0.2% bwoc R-3+0.125 lbs/sk CF+7% bwoc FL-52+0.3% bwoc ASA-301 + 6% bwoc Bent + 105.5% FW,Yld:2.01 cf/sk,Tail:1950 sx (50:50)Poz(Fly Ash):C1 H Cmt+1% bwow SodiumChlor+0.2% bwoc R-3+0.125 lbs/sk CF+0.5% bwoc BA-10A+4% bwoc MPA-5 +58.3% FW,14.2 ppg,Yld:1.28 cf/sk.TOC @ 2200'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
DoubleRam	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 ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

Printed Name: Electronically filed by Randy Bolles

Title: Manager, Regulatory Affairs

Email Address: randy.bolles@dvn.com

Date: 10/31/2012

Phone: 405-228-8588

OIL CONSERVATION DIVISION

Approved By: Randy Dade

Title: District Supervisor

Approved Date: 11/6/2012

Expiration Date: 11/6/2014

Conditions of Approval Attached

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

Form C-102
August 1, 2011
Permit 157037

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-40826	2. Pool Code 30212	3. Pool Name HARROUN RANCH,DELAWARE
4. Property Code 39533	5. Property Name HARROUN TRUST 31	6. Well No. 004H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 2958

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	31	23S	29E		330	S	1345	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 240.00		13. Joint or Infill		14. Consolidation Code N/A		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 style="text-align: center;">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: 10/31/2012</p>	<p style="text-align: center;">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: James Tompkins Date of Survey: 6/24/2012 Certificate Number: 14729</p>
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Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: HARROUN TRUST 31 #004H

API: 30-015-40826

Created By	Comment	Comment Date
priechers	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 a 3M system prior to drilling out the surface casing shoe.	10/30/2012
priechers	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 a 3M system prior to drilling out the intermediate casing shoe.	10/30/2012
priechers	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.	10/30/2012
CSHAPARD	Land p/P	11/5/2012

Permit Conditions of Approval

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: HARROUN TRUST 31 #004H

API: 30-015-40826

OCD Reviewer	Condition
CSHAPARD	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
CSHAPARD	Conditions of Approval of APD upon review of a Non-Standard Location.