

**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 153261

**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> 333 W. Sheridan Avenue Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-015-40587
4. Property Code 38436	5. Property Name EMERALD PWU 20	6. Well No. 007H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	20	19S	29E	I	1700	S	50	E	EDDY

**8. Pool Information**

SCANLON DRAW, BONE SPRING	55510
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3323
14. Multiple N	15. Proposed Depth 11604	16. Formation 3rd Bone Spring Sand	17. Contractor	18. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**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	48	340	380	0
Int1	12.25	9.625	40	3300	1040	0
Prod	8.75	5.5	17	11604	1365	0
Prod	8.75	5.5	17	6260	605	2800

**Casing/Cement Program: Additional Comments**

13.375 - Tail: 380 sx C + 2% bwoc Calcium Chloride + 0.125#/sx CF Poly-E-Flake + 63.1% FW, 14.8 ppg Yield: 1.35 cf/sk. 9.625 - Lead: 755 sx (65:35) C Poz (Fly Ash) + 5% bwow Sodium Chloride + 0.125#/sx Poly-E-Flake + 6% bwoc Bentonite + 70.9% FW, 12.9 ppg Yield: 1.85 cf/sk TOC @ surface. Tail: 285 sx C + 0.125#/sx Poly-E-Flake + 63.5% Water, 14.8 ppg Yield: 1.33 cf/sk. 5.5 - 1st Lead: 215 sx (50:50) H Poz (Fly Ash) + 10% bwoc Bentonite + 8 lb/sk Sodium Chloride + 0.125E/sx Poly-E-Flake + 0.3% bwoc HR-601 + 0.3% bwoc Econolite + 77.2% FW, 11.8 ppg Yield: 2.52 cf/sk 2nd Lead: 390 sx (65:35) H Poz (Fly Ash) + 6% bwoc Bentonite + 0.125#/sx Poly-E-Flake + 0.1% bwoc HR-601 + 74.1% FW, 12.5 ppg Yield: 1.95 cf/sk. Tail: 1365 sx (50:50) H Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% FW, 14.5 ppg Yield: 1.22 cf/sk.

**Proposed Blowout Prevention Program**

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

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: Randy Dade	
Title: Manager, Regulatory Affairs	Title: District Supervisor	
Email Address: randy.bolles@dmn.com	Approved Date: 8/14/2012	Expiration Date: 8/14/2014
Date: 8/8/2012	Phone: 405-228-8588	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 153261

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-40587	2. Pool Code 55510	3. Pool Name SCANLON DRAW;BONE SPRING
4. Property Code 38436	5. Property Name EMERALD PWU 20	6. Well No. 007H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3323

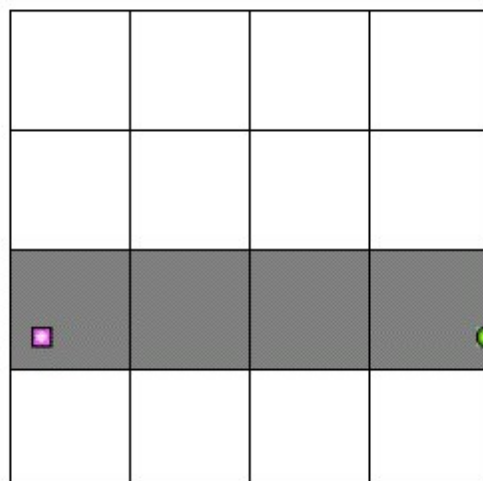
**10. Surface Location**

UL - Lot I	Section 20	Township 19S	Range 29E	Lot Idn	Feet From 1700	N/S Line S	Feet From 50	E/W Line E	County EDDY
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**11. Bottom Hole Location If Different From Surface**

11. Bottom Hole Location If Different From Surface									
UL - Lot L	Section 20	Township 19S	Range 29E	Lot Idn L	Feet From 1700	N/S Line S	Feet From 330	E/W Line W	County EDDY
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code			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**



**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: 8/8/2012

**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: Frank Jaramillo  
Date of Survey: 5/1/2012  
Certificate Number: 12797



## Permit Comments

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

**Well:** EMERALD PWU 20 #007H

**API:** 30-015-40587

Created By	Comment	Comment Date
barnettj	The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested 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 Triple Ram and Annular preventer. The BOP system will be tested as a 3M system prior to drilling out the intermediate casing shoe. 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.	8/8/2012
CSHAPARD	Land s/S	8/9/2012

## Permit Conditions of Approval

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

**Well:** EMERALD PWU 20 #007H

**API:** 30-015-40587

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