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 152337

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

1. Operato	2. OGRID Number		
DEVON ENERGY PR	6137		
333 W. Sheridan Avenue		3. API Number	
Oklahoma City, OK 73102		30-015-40513	
4. Property Code	5. Property Name	6. Well No.	
38436	EMERALD PWU 20		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	21	198	29E	M	180	S	50	W	EDDY

8. Pool Information

55		10.
SCANLON DRAW:BON	TE SPRING	55510

Additional Well Information

9. Work Type New Well	5407.515.315	0. Well Type 11. Cable/Rotary OIL		12. Lease Type State	13. Ground Level Elevation 3325	
14. Multiple 15. Proposed Depth N 11729		16. Formation 17. Contractor 1st Bone Spring Sand		18. Spud Date		
Depth to Ground	water		Distance from nearest fresh water w	rel1	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	300	335	0
Int1	12.25	9.625	40	3200	1015	0
Prod	8.75	5.5	17	11729	1435	0
Prod	8.75	5.5	17	6300	685	2700

Casing/Cement Program: Additional Comments

13-3/8" Tail:335sxs Class C Cmt + 2% bwoc CalChl + 0.125#/sx Poly-EF + 63.1% FW, 14.8 ppg, Yld: 1.35 cf/sx 9-5/8" Lead:735sxs (65:35)Class C Cmt:Poz(Fly Ash): + 5% bwow Sod Chl + 0.125#/sx Poly-EF + 6% bwoc Bentonite + 70.9% FW, 12.9 ppg, Yld: 1.85 cf/sx. Tail: 280sxs Class C Cm + 0.125#/sack Poly-EF + 63.5% Water, 14.8 ppg, Yld: 1.33 cf/sx 5-1/2" Lead:685sxs(65:35)Class H Cmt:Poz(Fly Ash) + 6% bwoc Bentonite + 0.125#/sx Poly-EF1 + 0.1% bwoc HR-601 + 74.1% FW, 12.5 ppg, Yld: 1.95 cf/sk. Tail:1435sxs(50:50)Class H Cmt:Poz(Fly Ash) + 1#/sx Sod Chl + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% FW, 14.5 ppg. Yld: 1.22 cf/sx TVD 6832

Proposed Blowout Prevention Program

	Troposed Diowodt Trevention Trogram							
Type	Working Pressure	Test Pressure	Manufacturer					
Annular	3000	3000						
DoubleRam	3000	3000						

of my knowledge and belief.	iven above is true and complete to the best it will be constructed according to	OIL CONSERVATION DIVISION		
	permit , or an (attached) alternative	Approved By: Randy Dade		
Printed Name: Electronically f	iled by Randy Bolles	Title: District Supervisor		
Title: Manager, Regulatory Af	fairs	Approved Date: 7/23/2012	Expiration Date: 7/23/2014	
Email Address: randy.bolles@	dvn.com	Contract to the contract of th	**	
Date: 7/20/2012	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 152337

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code		ol Name	
30-015-40513	55510		W;BONE SPRING	
4. Property Code	5. Property Name		6. Well No.	
38436	EMERALD PWU 20		008H	
7. OGRID No. 6137		8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP		

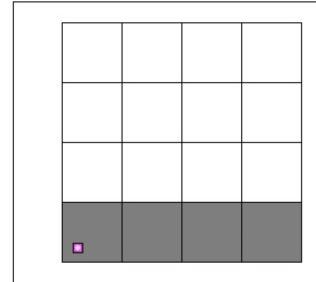
10. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	M	21	198	29E		180	S	50	W	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
M	20	198	29E	M	330	S	330	W	EDDY
	cated Acres	13. J	oint 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: 7/20/2012

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

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137 Well: EMERALD PWU 20 #008H

API: 30-015-40513

Created By	Comment	Comment Date
morawford	The BOP system used to drill the intermediate and production holes will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the prior casing shoe.	7/20/2012
morawford	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.	7/20/2012
morawford	Mud: 0-300' FW, 8.4-9.0, 28-34, NC 300'-3,200' Brine, 9.8-10.2, 28-32, NC 3,200'-11,729' FW, 8.8-9.0, 28-32, NC-12	7/20/2012
morawford	No H2S is anticipated to be encountered.	7/20/2012
CSHAPARD	Land s/S	7/23/2012

Permit Conditions of Approval

Operator: DEVON ENERGY PRODUCTION COMPANY, LP, 6137

Well: EMERALD PWU 20 #008H

API: 30-015-40513

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