District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-8161 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 182243

1. Operat		e and Address ON ENERGY PRO	DUCTION CO	MPANY, LP					2. 0	OGRID Number 6137		
		W. Sheridan Aveni homa City, OK 73							3. /	API Number 30-025-41696	5	
4. Property Code 39877				5. Property Name IRONHOUSE 24 STATE COM					6. Well No. 004H			
						7. Surf	ace Location					
JL - Lot	1.77	Section	Township	Ra	inge	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	131
	M	24	1	88	34E		200	S	660	W	1 1 1 1	Lea
						8. Proposed B	ottom Hole Location	n				
JL - Lot		Section	Township	Rai	nge	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	9.
	D	24	1	BS	34E	D	330	N	660	W		Lea

### 9. Pool Information

VII VVI III VVI III VVII VVII III VVII VV	10 03
WC-025 G-06 S183518A:BONE SPRING	97930

#### Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3980
16. Multiple N	17. Proposed Depth 14415	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 6/30/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

#### We will be using a closed-loop system in lieu of lined pits

## 21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.2	13.375	54.5	1875	1670	0
Int1	12.25	9.625	36	3450	990	0
Prod	8.75	5.5	17	14415	2260	3000

# Casing/Cement Program: Additional Comments

13-3/8" Surface: Lead w/1110sx CI C Cmt + 0.125 #/sx Poly-E-Flake + 4% bwoc Bent + 70.1% FW, 13.5 ppg, water volume: 9.08 g/sx, Yld 1.72 cf/sx; Tail w/560sx CI C Cmt + 63.5% FW, 14.8 ppg, water volume: 6.34 g/sx, Yld 1.33 cf/sx; TOC @ surface. 9-5/8" Intermediate: Lead w/560sx (65:35) CI C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW Sodium Chloride + 0.125 #/sx Poly-E-Flake + 70.9 % FW, 12.9 ppg, water volume: 9.82, Yld 1.85 cf/sx; Tail w/430sx CI C Cmt + 0.125 #/sx Poly-E-Flake + 63.5% FW, 14.8 ppg, water volume: 6.32 g/sx, Yld 1.33 cf/sx. TOC @ surface. 5-1/2" Production Casing: Single Stage: First Lead w/600sx (50:50) CI H Cmt: Poz (Fly Ash) + 10% BWOC Bent + 1 #/sx of Kol-Seal + 0.3% BWOC HR-601 + 0.5 #/sx D-Air 5000 + 76.4% FW, 11.9 ppg, water volume: 12.89 g/sx, Yld 2.26 cf/sx; Second Lead w/330sx (65:35) CI H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake + 74.1 % FW. Continued in Comments section.

# 22. Proposed Blowout Prevention Program

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

knowledge and	belief. I have complied with 19.15.14.9 (A)	true and complete to the best of my  NMAC  and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:				Paul Kautz	
Title:	Manager, Regulatory Affairs		Title:	Geologist	
Email Address:	Email Address: randy.bolles@dvn.com			2/27/2014	Expiration Date: 2/27/2016
Date:	2/27/2014	Phone: 405-228-8588	Conditions of Appr	roval Attached	

District I

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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-102 August 1, 2011

Permit 182243

# WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41696	2. Pool Code 97930	3. Pool Name WC-025 G-06 S183518A:BONE SPRING						
		6. Well No.						
4. Property Code	5. Property Name							
39877	IRONHOUSE 24 STATE COM	004H						
7. OGRID No.	8. Operator Name	9. Elevation						
6137	DEVON ENERGY PRODUCTION COMPANY, LP	3980						

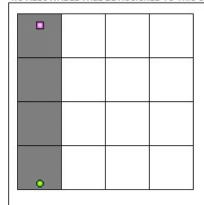
#### 10. Surface Location

	Tot Guillage Econion									
	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
١	M	24	188	34E		200	S	660	W	Lea

#### 11 Bottom Hole Location If Different From Surface

	TH Bottom Hole Countries I billion out Tom Guildo								
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	24	18S	34E	W 200 CO. 1	330	N	660	W	Lea
12. Dedicated Acres 13. Joint or Infill				14. Consolidation Code			15. Order No.		
160.00								10 (44 (15))	

## 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.

Randy Bolles E-Signed By:

Manager, Regulatory Affairs Title:

2/27/2014 Date:

## 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.

Filimon Jaramillo Surveyed By: 1/23/2014 Date of Survey: Certificate Number: PLS 12797

Form APD Comments

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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

Permit 182243

# **PERMIT COMMENTS**

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-41696
333 W. Sheridan Avenue	Well:
Oklahoma City, OK 73102	IRONHOUSE 24 STATE COM #004H

Created By	Comment	Comment Date
dcook	5-1/2" Production Casing - Single Stage Option Continued: 12.5 ppg, water volume: 10.81 g/sx, Yld 1.96 cf/sx; Tail w/1330sx (50:50) Cl H Cmt: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, water volume: 5.38 g/sx, Yld 1.22 cf/sx. TOC @ 3000 ft.	2/27/2014
dcook	5-1/2" Production Casing - Two Stage Option: First Lead w/710sx (65:35) CI H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % FW, 12.5 ppg, water volume: 10.81 g/sx, Yld 1.96 cf/sx; Tail w/1330sx (50:50) CI H Cmt: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, water volume: 5.38, Yld 1.22 cf/sx. DV Tool @ 5000 ft.	2/27/2014
dcook	5-1/2" Production Casing - Two Stage Option: Secon Lead w/200sx (50:50) CI H Cmt: Poz (Fly Ash) + 10% BWOC Bent + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% FW, 11.9 ppg, water volume: 12.89 g/sx, Yld 2.26 cf/sx; Tail w/120sx CI C Cmt + 0.125 lbs/sack Poly-E-Flake + 63.5% FW, 14.8 ppg, water volume: 6.32, Yld 1.33 cf/sx. Stage 1 TOC @ 5000 ft Stage 2 TOC @ 3000 ft	2/27/2014
dcook	• Cement volumes Surface 100%, Intermediate 75% and Production Casing based on at least 25% excess • Actual cement volumes will be adjusted based on fluid caliper and caliper log data • If lost circulation is encountered while drilling the production and/or the intermediate wellbores, a DV tool will be installed a minimum of 50' below the previous casing shoe and a minimum of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately. Both single and double stage proposals are listed in the cement table.	2/27/2014
dcook	A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.	2/27/2014
dcook	A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.	2/27/2014
dcook	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.	2/27/2014
dcook	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.	2/27/2014

Form APD Conditions

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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

Permit 182243

# PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-41696
333 W. Sheridan Avenue	Well:
Oklahoma City, OK 73102	IRONHOUSE 24 STATE COM #004H

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104
DMULL	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
DMULL	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
pkautz	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water