District I

UL - Lot

D

1625 N. French Dr., Hobbs, NM 88240 Phone:(675) 393-6161 Fax:(575) 393-0720 <u>District II</u>

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

Section

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 182227

E/W Line

County

Lea

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Address					0900	200	.2	8985	2. OGRID Nu	mber		
VERGY PR	ODUCTION CO	OMPANY, LP							61	37		
eridan Aver	nue								3. API Numbe	er		
City, OK 7	3102								30	-025-41693	3	
		5. Property Nam	e						6. Well No.			
		Dun	kle 7 State						00	1H		
					7. Sur	face Location	310.77			111		
ction	Township	Range		Lot Idn		Feet From	N/S Line	Feet From	E/V	V Line	County	
7	18	S	36E	11000	4	200	S	86	35	W		Lea
1	eridan Ave	NERGY PRODUCTION Control of the cont	NERGY PRODUCTION COMPANY, LP neridan Avenue a City, OK 73102 5. Property Nam Duni	NERGY PRODUCTION COMPANY, LP neridan Avenue a City, OK 73102 5. Property Name Dunkle 7 State	NERGY PRODUCTION COMPANY, LP neridan Avenue a City, OK 73102 5. Property Name Dunkle 7 State	NERGY PRODUCTION COMPANY, LP seridan Avenue a City, OK 73102 5. Property Name Dunkle 7 State 7. Sur section Township Range Lot Idn	NERGY PRODUCTION COMPANY, LP seridan Avenue a City, OK 73102 5. Property Name Dunkle 7 State 7. Surface Location setion Township Range Lot Idn Feet From	NERGY PRODUCTION COMPANY, LP seridan Avenue a City, OK 73102 5. Property Name	NERGY PRODUCTION COMPANY, LP seridan Avenue a City, OK 73102 5. Property Name Dunkle 7 State 7. Surface Location section Township Range Lot Idn Feet From N/S Line Feet From	NERGY PRODUCTION COMPANY, LP	1	NERGY PRODUCTION COMPANY, LP 6137 Peridan Avenue

9. Pool Information

Feet From

330

Lot Idn

N/S Line

N

Feet From

660

VII VVIIII VIII VIII VIII VIII VIII VI	511	
WC-025 G-06 S183608B:BONE SPRING	0	

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3866
18. Multiple N	17. Proposed Depth 13752	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 4/30/2014
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

Township

188

Range

36E

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	2000	1780	0
Int1	12.25	9.625	36	3225	910	0
Prod	8.75	5.5	17	13752	2050	2725

Casing/Cement Program: Additional Comments

13-3/8" Surface: Lead w/1220 sx Cl 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: 560 sx Cl C Cmt + 63.5% FW, 14.8 ppg, water volume 6.32 g/sx, Yld 1.33 cf/sx. TOC @ surface. 9-5/8" Intermediate: Lead w/480 sx (65:35) Cl 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 9.81 g/sx, Yld 1.85 cf/sx; Tail: 430sx Cl C Cmt + 63.5% FW, 14.8 ppg, water volume 6.32 g/sx, Yld 1.33 cf/sx. TOC @ surface. Pilot Hole Plug Back Cmt: 560sx Cl H Cmt + 0.2% Halad-9 + 0.2% HR-601 + 60.5 % FW, 15.6 ppg, water volume 5.39 g/sx, Yld 1.19 cf/sx. Pilot Hole Plug back @ 8354 ft. See Comments for 5 1/2" Production Cmt & 2 Stage Option.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
Double Ram	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:				OIL CONSERVATIO	ON DIVISION	
Printed Name:	Electronically filed by Randy Bolle	es	Approved By:	Paul Kautz		
Title:	Manager, Regulatory Affairs		Title:	Geologist		
Email Address:	randy.bolles@dvn.com		Approved Date:	2/27/2014 Expiration Date: 2/27/2016		
Date:	2/27/2014	Phone: 405-228-8588	Conditions of Appr	oval Attached		

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District III 1000 Rio Brazos Rd., Aztec, NM 87410

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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 182227

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41693	2. Pool Code	3. Pool Name WC-025 G-06 S183608B;BONE SPRING
4. Property Code 40427	5. Property Name Dunkle 7 State	6. Well No. 001H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3866

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	7	188	36E	4	200	S	865	W	Lea

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
	D	7	18S	36E	1	330	N	660	W	Lea
	12. Dedicated Acres			13. Joint or Infill		14. Consolidation Cod	de		15. Order No.	
	148.28								10 144 115 115	

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

	organization either a right to drill this w	OPERATOR CERTIFICATION the information contained herein is true and complete to the best of my knowledge and belief, and that this owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has ell at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling outsory pooling order heretofore entered by the division.
	E-Signed By:	Randy Bolles
	Title:	Manager, Regulatory Affairs
	Date:	2/27/2014
		SURVEYOR CERTIFICATION the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision true and correct to the best of my belief.
	Surveyed By:	Filimon Jaramillo
0	Date of Survey:	2/7/2014
	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 182227

PERMIT COMMENTS

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-41693
333 W. Sheridan Avenue	Well:
Oklahoma City, OK 73102	Dunkle 7 State #001H

Created By	Comment	Comment Date
dcook	5-1/2" Production Casing Single Stage: Lead w/670sx Tuned Light Blend + 0.125 #/sx Pol-E-Flake + 76.3% FW, 11.0 ppg, water volume 15.23 g/sx, Yld 2.71 cf/sx; Tail w/1380sx (50:50) Cl H Cmt: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, water volume 5.32 g/sx, Yld 1.21 cf/sx. TOC @ 2725 ft.	2/26/2014
dcook	5-1/2" Production Casing 2 Stage Option: First Stage: Lead w/530sx (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake + 74.1 % FW, 12.5 ppg, water volume 10.86 g/sx, Yld 1.96 cf/sx; Tail w/1380sx (50:50) Cl H Cmt: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, water volume 5.38 g/sx, Yld 1.22 cf/sx. TOC @ 5300 ft. DV Tool @ 5300 ft. Second Stage: Lead w/270sx (50:50) Cl 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, 1	2/26/2014
dcook	• Cement volumes Surface 100%, Intermediate 75%, Pilot 10% and Production 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.	2/26/2014
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. 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.	2/26/2014
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. 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	2/26/2014

Form APD Conditions

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Permit 182227

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-41693
333 W. Sheridan Avenue	Well:
Oklahoma City, OK 73102	Dunkle 7 State #001H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
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
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