

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) 749-1283 Fax:(575) 749-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-8170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

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 194312

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
4. Property Code 313803		3. API Number 30-025-42193
5. Property Name MONK 21 STATE		6. Well No. 004H

7. Surface Location

UL - Lot	B	Section	21	Township	21S	Range	34E	Lot Idn	Feet From	200	N/S Line	N	Feet From	1980	E/W Line	E	County	Lea
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8. Proposed Bottom Hole Location

UL - Lot	P	Section	21	Township	21S	Range	34E	Lot Idn	P	Feet From	330	N/S Line	S	Feet From	660	E/W Line	E	County	Lea
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9. Pool Information

BERRY,BONE SPRING, SOUTH	96660
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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 3723
16. Multiple N	17. Proposed Depth 15222	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 12/24/2014
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	17.5	13.375	54.5	1870	1670	0
Int1	12.25	9.625	40	5000	1450	0
Prod	8.75	7	29	10000	340	4500
Prod	8.75	5.5	17	15222	1340	0

Casing/Cement Program: Additional Comments

Surface Casing/Cement: Lead w/1110sx Cl C Cmt + 4% Bent Gel + 0.125 #/sx Poly-E-Flake, 13.5 ppg, Water: 9.07 gal/sx, Yld. 1.72 cf/sx. Tail w/560sx Cl C Cmt + 0.125 #/sx Poly-E-Flake + 1% BWOC Calcium Chloride, 14.8 ppg, Water: 6.34 gal/sx, Yld. 1.34 cf/sx; TOC @ surface. Intermediate Casing/Cement: Lead w/1020sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW Sodium Chloride + 0.125 #/sx Poly-E-Flake, 12.9 ppg, Water: 9.81 gal/sx, Yld. 1.85 cf/sx. Tail W/430sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, Water: 1.33 gal/sx, Yld. 6.32 cf/sx; TOC @ surface. Contingent Intermediate Casing/Cement: 1st Stage Lead w/770sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW Sodium Chloride + 0.125 #/sx Poly-E-Flake, 12.9 ppg, Water: 9.81 gal/sx, Yld. 1.85 cf/sx; 1st Stage Tail w/220sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, Water: 1.33 gal/sx, Yld. 6.32 cf/sx; DV Tool @ 1920'. Continued in Comments.

22. Proposed Blowout Prevention Program

Type	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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: _____ Printed Name: <u>Electronically filed by Randy Bolles</u> Title: <u>Manager, Regulatory Affairs</u> Email Address: <u>randy.bolles@dvn.com</u> Date: <u>10/16/2014</u>	OIL CONSERVATION DIVISION Approved By: <u>Paul Kautz</u> Title: <u>Geologist</u> Approved Date: <u>10/17/2014</u> Expiration Date: <u>10/17/2016</u> Conditions of Approval Attached
Phone: <u>405-228-8588</u>	

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Form C-102
August 1, 2011
Permit 194312

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42193	2. Pool Code 96660	3. Pool Name BERRY,BONE SPRING, SOUTH
4. Property Code 313803	5. Property Name MONK 21 STATE	6. Well No. 004H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3723

10. Surface Location

UL - Lot B	Section 21	Township 21S	Range 34E	Lot Idn	Feet From 200	N/S Line N	Feet From 1980	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot P	Section 21	Township 21S	Range 34E	Lot Idn	Feet From 330	N/S Line S	Feet From 660	E/W Line E	County Lea
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

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px; text-align: center;"></td><td style="width: 25%; height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px; text-align: center;"></td></tr> </table>																	<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: 10/16/2014</p> <hr/> <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: Filimon Jaramillo Date of Survey: 1/23/2013 Certificate Number: PLS 12797</p>

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Form APD Comments

Permit 194312

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42193
	Well: MONK 21 STATE #004H

Created By	Comment	Comment Date
dcook	2nd Stage Lead w/290sx (65:35) CI C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW Sodium Chloride + 0.125 #/sx Poly-E-Flake, 12.9 ppg, Water: 9.81 gal/sx, Yld. 1.85 cf/sx; 2nd Stage Tail w/150sx CI C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, Water: 1.33 gal/sx, Yld. 6.32 cf/sx; TOC @ surface.	10/16/2014
dcook	7" x 5.5" Combo Production Casing/Cement: Lead w/340sx Tuned Light® Cmt + 0.125 #/sx Pol-E-Flake, 10.4 ppg, Water: 16.8 gal/sx, Yld. 3.17 cf/sx; Tail w/1340sx (50:50) CI H Cmt: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bent, 14.5 ppg, Water: 5.31 gal/sx, Yld. 1.2 cf/sx; TOP @ 4500'.	10/16/2014
dcook	DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.	10/16/2014
dcook	BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.	10/16/2014
dcook	Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.	10/16/2014

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Form APD Conditions

Permit 194312

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42193
	Well: MONK 21 STATE #004H

OCD Reviewer	Condition
DMULL	Will require a directional survey with the C-104
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	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water