

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) 334-8178 Fax:(505) 334-6170
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 196090

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 313915		3. API Number 30-025-42290
5. Property Name ALTBEIR 10 STATE		6. Well No. 001H

7. Surface Location

UL - Lot	N	Section	10	Township	18S	Range	36E	Lot Idn		Feet From	230	N/S Line	S	Feet From	1980	E/W Line	W	County	Lea
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8. Proposed Bottom Hole Location

UL - Lot	C	Section	10	Township	18S	Range	36E	Lot Idn	C	Feet From	330	N/S Line	N	Feet From	1980	E/W Line	W	County	Lea
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9. Pool Information

WC-025 G-06 S183608B;BONE SPRING	98064
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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 3818
16. Multiple N	17. Proposed Depth 13631	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 1/23/2015
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	2025	1240	0
Int1	12.25	9.625	36	3250	930	0
Prod	8.75	5.5	17	13631	2210	2750

Casing/Cement Program: Additional Comments

Surface Cement: Pump Lead w/680sx (65:35) Cl C Cmt: Poz (Fly Ash); 6% BWOC Bent + 3% BWOW NaCL + 0.125 #/sx Poly-E-Flake, 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx; Pump Tail w/560sx Cl C Cmt + 0.125 #/sx Poly-E-Flake + 1% BWOC CaCl2, 14.8 ppg, H2O: 6.34 gal/sx, Yld. 1.34 cf/sx; TOC @ surface. Intermediate Cement: Pump Lead w/600sx (65:35) Cl C Cmt: Poz (Fly Ash); 6% BWOC Bent + 5% BWOW NaCL + 0.125 #/sx Poly-E-Flake, 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx; Pump Tail w/330sx Cl C Cmt + 0.125 #/sx Poly-E-Flake, 14.8 ppg, H2O: 1.33 gal/sx, Yld. 6.32 cf/sx; TOC @ surface. Production Cement: Pump 1st Lead w/540sx (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, 11.9 ppg, H2O: 12.89 gal/sx, Yld. 2.26 cf/sx; Pump 2nd Lead w/330sx (65:35) Cl H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake, 12.5 ppg, H2O: 10.86 gal/sx, Yld. 1.96 cf/sx. To be continued in Comments section.

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: Electronically filed by Randy Bolles Title: Manager, Regulatory Affairs Email Address: randy.bolles@dmv.com Date: 11/26/2014	OIL CONSERVATION DIVISION Approved By: Paul Kautz Title: Geologist Approved Date: 11/26/2014 Expiration Date: 11/26/2016 Conditions of Approval Attached
Phone: 405-228-8588	

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Form C-102
August 1, 2011
Permit 196090

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42290	2. Pool Code 98064	3. Pool Name WC-025 G-06 S183608B,BONE SPRING
4. Property Code 313915	5. Property Name ALTBEIR 10 STATE	6. Well No. 001H
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3818







10. Surface Location

UL - Lot N	Section 10	Township 18S	Range 36E	Lot Idn	Feet From 230	N/S Line S	Feet From 1980	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 10	Township 18S	Range 36E	Lot Idn	Feet From 330	N/S Line N	Feet From 1980	E/W Line W	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%; text-align: center;"></td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td style="text-align: center;"></td><td></td><td></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: 11/26/2014</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: Gary Jones Date of Survey: 10/30/2014 Certificate Number: 7977</p>
																	
																	

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Form APD Comments

Permit 196090

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42290
	Well: ALTBEIR 10 STATE #001H

Created By	Comment	Comment Date
dcook	Continued Production Cement: Pump 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, H2O: 5.31 gal/sx, Yld. 1.2 cf/sx; TOC @ 2750 ft.	11/26/2014
dcook	Contingent Production Casing Program: Hole size: 8.75", Csg size: 7", Grade: P110, Weight: 29 lbs., set from surface to 8520 ft; Csg size: 5.5", Grade: P110, Weight: 17 lbs, set from 8520 ft to 13634 ft.	11/26/2014
dcook	Contingent Production Cement Program: Pump Lead w/350sx Tuned Light® Cmt + 0.125 #/sx Pol-E-Flake, 10.4 ppg, H2O: 16.8 gal/sx, Yld. 3.17 cf/sx; Pump 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, H2O: 5.31 gal/sx, Yld. 1.2 cf/sx; TOC @ 2750 ft.	11/26/2014
dcook	Proposed Pilot Hole: Depth: 10,143 ft KOP @ 8,570 ft Plug top Plug Bottom % Excess No. Sacks Wt. #/gal Yld ft3/sx Water gal/sx Slurry Description and Cement Type 8,370 10,143 10 690 15.6 1.19 5.42 Class H + 0.5% BWOC HR-601 + 0.2% Halad-9	11/26/2014
dcook	Corrected Proposed Pilot Hole Data: Depth: 10,143 ft KOP @ 8,570 ft Top Plug: 8,370 ft., Bottom Plug: 10,143 ft, Pump w/690sx CI H + 0.5% BWOC HR-601 + 0.2% Halad-9, 15.6 ppg, H2O: 5.42 gal/sx, Yld cf/sx: 1.19; % Excess: 10.	11/26/2014
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.	11/26/2014
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.	11/26/2014
dcook	Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.	11/26/2014

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Form APD Conditions

Permit 196090

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number: 30-025-42290
	Well: ALTBEIR 10 STATE #001H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	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