

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-8161 Fax:(505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 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 232633

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

1. Operator Name and Address ROCKCLIFF OPERATING NEW MEXICO LLC 1301 McKinney Houston, TX 77010		2. OGRID Number 371115
4. Property Code 317501		3. API Number 30-015-44091
5. Property Name EL TORO INVICTA 14		6. Well No. 221H

7. Surface Location

UL - Lot	M	Section	14	Township	23S	Range	28E	Lot Idn		Feet From	340	N/S Line	S	Feet From	330	E/W Line	W	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	D	Section	14	Township	23S	Range	28E	Lot Idn	D	Feet From	240	N/S Line	N	Feet From	330	E/W Line	W	County	Eddy
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9. Pool Information

CULEBRA BLUFF;BONE SPRING, SOUTH	15011
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2996
16. Multiple N	17. Proposed Depth 13170	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 7/19/2017
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	14.75	11.75	47	500	500	0
Int1	10.625	8.625	32	2700	600	0
Prod	7.875	5.5	20	13170	2150	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

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 CONSERVATION DIVISION
Printed Name: Electronically filed by Nick Koch	Approved By: Raymond Podany
Title: VP Operations	Title: Geologist
Email Address: nkoch@rockcliffenergy.com	Approved Date: 3/7/2017 Expiration Date: 3/7/2019
Date: 3/2/2017 Phone: 713-351-0549	Conditions of Approval Attached

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code 15011		³ Pool Name Culebra Bluff; Bone Spring, South	
⁴ Property Code		⁵ Property Name EL TORO INVICTA 14			⁶ Well Number 221H
⁷ OGRID No. 371115		⁸ Operator Name ROCKCLIFF OPERATING NEW MEXICO LLC			⁹ Elevation 2996'

¹⁰ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	23 SOUTH	28 EAST, N.M.P.M.		340'	SOUTH	330'	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	23 SOUTH	28 EAST, N.M.P.M.		240'	NORTH	330'	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code P	¹⁵ Order No.
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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.

Diagram showing well location and acreage dedication plat. The plat is divided into sections 14 and 23. The proposed last take point is at 330' FNL, 330' FWL. The proposed first take point is at 330' FSL, 330' FWL. The corner coordinates table (NAD 27) is provided. The diagram also shows a proposed producing interval and a proposed last take point.	PROPOSED BOTTOM HOLE LOCATION <table border="1"> <tr> <td>X=</td> <td>582.874</td> <td>NAD 27</td> </tr> <tr> <td>Y=</td> <td>477.346</td> <td></td> </tr> <tr> <td>LAT.</td> <td>32.312054</td> <td></td> </tr> <tr> <td>LONG.</td> <td>104.085081</td> <td></td> </tr> <tr> <td>X=</td> <td>624.057</td> <td>NAD83</td> </tr> <tr> <td>Y=</td> <td>477.405</td> <td></td> </tr> <tr> <td>LAT.</td> <td>32.312175</td> <td></td> </tr> <tr> <td>LONG.</td> <td>104.065576</td> <td></td> </tr> </table>	X=	582.874	NAD 27	Y=	477.346		LAT.	32.312054		LONG.	104.085081		X=	624.057	NAD83	Y=	477.405		LAT.	32.312175		LONG.	104.065576		1. 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 interests in the land including the proposed bottom hole location 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 in a voluntary pooling agreement or a compulsory pooling or an agreement entered by the division. Signature: <i>Brian Wood</i> Date: 3-1-17		
	X=	582.874	NAD 27																									
	Y=	477.346																										
	LAT.	32.312054																										
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LAT.	32.312175																											
LONG.	104.065576																											
CORNER COORDINATES TABLE (NAD 27) A - Y=477585.85, X=582543.98 B - Y=477585.10, X=583966.03 C - Y=472266.72, X=582546.90 D - Y=472275.12, X=583860.91	2. 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. Date of Survey: 1-3-2017 Signature and Seal of Professional Surveyor: <i>Robert L. Lastrapes</i> Certificate Number: 23006																											
EL TORO INVICTA 14 221H WELL <table border="1"> <tr> <td>X=</td> <td>582.877</td> <td>NAD 27</td> </tr> <tr> <td>Y=</td> <td>472.809</td> <td></td> </tr> <tr> <td>LAT.</td> <td>32.299034</td> <td></td> </tr> <tr> <td>LONG.</td> <td>104.065111</td> <td></td> </tr> <tr> <td>X=</td> <td>624.060</td> <td>NAD83</td> </tr> <tr> <td>Y=</td> <td>472.668</td> <td></td> </tr> <tr> <td>LAT.</td> <td>32.299155</td> <td></td> </tr> <tr> <td>LONG.</td> <td>104.065605</td> <td></td> </tr> <tr> <td colspan="3">ELEVATION - 2996' NAVD 88</td> </tr> </table>	X=	582.877	NAD 27	Y=	472.809		LAT.	32.299034		LONG.	104.065111		X=	624.060	NAD83	Y=	472.668		LAT.	32.299155		LONG.	104.065605		ELEVATION - 2996' NAVD 88			
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Form APD Comments

Permit 232633

PERMIT COMMENTS

Operator Name and Address: ROCKCLIFF OPERATING NEW MEXICO LLC [371115] 1301 McKinney Houston, TX 77010	API Number: 30-015-44091
	Well: EL TORO INVICTA 14 #221H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 232633

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: ROCKCLIFF OPERATING NEW MEXICO LLC [371115] 1301 McKinney Houston, TX 77010	API Number: 30-015-44091
	Well: EL TORO INVICTA 14 #221H

OCD Reviewer	Condition
RPodany	Will require a directional survey with the C-104
RPodany	Cement is required to circulate on both surface and intermediate1 strings of casing
RPodany	Must be in compliance with NMOCD rule 5.9 prior to placing well on production.