

**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 177180

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

<b>1. Operator Name and Address</b> ELEVATION RESOURCES LLC 200 N. Loraine, Ste. 1010 Midland, TX 79701		<b>2. OGRID Number</b> 302164
<b>4. Property Code</b> 40263		<b>3. API Number</b> 30-025-41579
<b>5. Property Name</b> Birddog 19 State		<b>6. Well No.</b> 001H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	19	21S	34E		225	S	1980	E	Lea

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	19	21S	34E	B	330	N	1980	E	Lea

**9. Pool Information**

WC-025 G-07 S213430M;BONE SPRING	97962
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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 3747
16. Multiple N	17. Proposed Depth 16345	18. Formation Bone Spring	19. Contractor	20. Spud Date 12/1/2013
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	1980	1155	0
Int1	12.25	9.625	40	5800	610	0
Prod	8.75	5.5	17	16345	0	0

**Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to +/-1980' w/fresh water spud mud. Run 13-3/8" 54.5# J-55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/2% CaCl2 to cement to surface if necessary. Drill 12-1/4" hole to +/-5800' w/cut brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 40# HCK-55 LTC casing to TD with DV tool placed 100' above surface shoe. Plan to circulate cement on both stages. An 8-3/4" pilot hole will be drilled to 12,300', logged and plugged back. A kick-off plug or whipstock will be set to drill 8-3/4" curve and 7-7/8" lateral to 12,300' w/cut brine. Run 5-1/2" 17# P-110 CDC casing to TD with a DV tool placed 100' above 9-5/8" shoe. Amount of cement to be determined. Plan to circulate cement on both stages.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>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.</b>  Signature: _____ Printed Name: Electronically filed by Sherry Harper Title: Production Analyst Email Address: sharper@elevationres.com Date: 11/27/2013	<p style="text-align: center;"><b>OIL CONSERVATION DIVISION</b></p> Approved By: Paul Kautz Title: Geologist Approved Date: 12/30/2013 Expiration Date: 12/30/2015 Conditions of Approval Attached
Phone: 432-688-3382	

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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

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Santa Fe, NM 87505

Form C-102

August 1, 2011

Permit 177180

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41579	2. Pool Code 97962	3. Pool Name WC-025 G-07 S213430M;BONE SPRING
4. Property Code 40263	5. Property Name Birddog 19 State	6. Well No. 001H
7. OGRID No. 302164	8. Operator Name ELEVATION RESOURCES LLC	9. Elevation 3747

10. Surface Location

UL - Lot O	Section 19	Township 21S	Range 34E	Lot Idn	Feet From 225	N/S Line S	Feet From 1980	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 19	Township 21S	Range 34E	Lot Idn	Feet From 330	N/S Line N	Feet From 1980	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

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Form APD Comments  
  
Permit 177180

**PERMIT COMMENTS**

Operator Name and Address: ELEVATION RESOURCES LLC [302164] 200 N. Loraine, Ste. 1010 Midland, TX 79701	API Number: 30-025-41579
	Well: Birdog 19 State #001H

Created By	Comment	Comment Date
nolivas	No Federal Potash lease was found within a 1 mile radius of the well.	11/27/2013
pkautz	Potash area R-111-p drilling restricted	11/27/2013
pkautz	Land s/S	11/27/2013

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Form APD Conditions

Permit 177180

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**Energy, Minerals and Natural Resources**  
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**1220 S. St Francis Dr.**  
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**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: ELEVATION RESOURCES LLC [302164] 200 N. Loraine, Ste. 1010 Midland, TX 79701	API Number: 30-025-41579
	Well: Birdog 19 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	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water and to comply with Potash Rules in R-111-p
pkautz	SURFACE AND INTERMEDIATE CASING: Cement must circulate to surface on both surface & intermediate casing per R-111-p
pkautz	PRODUCTION CASING: Cement on production casing must tie back into intermediate casing per R-111-p