

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) 334-8170
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 201548

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

1. Operator Name and Address EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		2. OGRID Number 7377
4. Property Code 40402		3. API Number 30-025-42480
5. Property Name THOR 21		6. Well No. 501H

7. Surface Location

UL - Lot	P	Section	21	Township	26S	Range	33E	Lot Idn	Feet From	230	N/S Line	S	Feet From	350	E/W Line	E	County	Lea
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8. Proposed Bottom Hole Location

UL - Lot	A	Section	21	Township	26S	Range	33E	Lot Idn	A	Feet From	230	N/S Line	N	Feet From	380	E/W Line	E	County	Lea
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9. Pool Information

BRADLEY;BONE SPRING	7280
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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 3252
16. Multiple N	17. Proposed Depth 15763	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/1/2015
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	860	500	0
Int1	12.25	9.625	40	4000	800	0
Int1	12.25	9.625	40	5000	200	4000
Prod	8.75	5.5	17	15763	2075	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
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 Stan Wagner Title: Regulatory Analyst Email Address: Stan_Wagner@eogresources.com Date: 3/18/2015	<p style="text-align: center;">OIL CONSERVATION DIVISION</p> Approved By: Paul Kautz Title: Geologist Approved Date: 3/18/2015 Expiration Date: 3/18/2017 Conditions of Approval Attached
Phone: 432-686-3689	

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Form C-102
August 1, 2011
Permit 201548

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42480	2. Pool Code 7280	3. Pool Name BRADLEY;BONE SPRING
4. Property Code 40402	5. Property Name THOR 21	6. Well No. 501H
7. OGRID No. 7377	8. Operator Name EOG RESOURCES INC	9. Elevation 3252

10. Surface Location

UL - Lot P	Section 21	Township 26S	Range 33E	Lot Idn	Feet From 230	N/S Line S	Feet From 350	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot A	Section 21	Township 26S	Range 33E	Lot Idn	Feet From 230	N/S Line N	Feet From 380	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 201548

PERMIT COMMENTS

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702		API Number: 30-025-42480
		Well: THOR 21 #501H
Created By RJarratt	Comment Attachments sent in separate email	Comment Date 3/18/2015

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Form APD Conditions

Permit 201548

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702	API Number: 30-025-42480
	Well: THOR 21 #501H

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