

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM28881

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well  
☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator EOG RESOURCES INCORPORATED

3a. Address 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77030    3b. Phone No. (include area code) (713) 651-7000

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 30/T24S/R34E/NMP

7. If Unit of CA/Agreement, Name and/or No. NMNM143157

8. Well Name and No. JUPITER 30 FED COM/401H

9. API Well No. 30-025-52439

10. Field and Pool or Exploratory Area RED HILLS/BONE SPRING, NORTH

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Jupiter 29 Fed Com 401H API #: 30-025-52439

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:

Change SHL from T-24-S, R-34-E, Sec 30, 2133' FNL, 1266' FWL, Lea Co., NM, to T-24-S, R-34-E, Sec 30, 2133' FNL, 1806' FWL, Lea Co., N.M.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) STAR HARRELL / Ph: (432) 848-9161

TitleRegulatory Specialist

Signature (Electronic Submission)

Date01/16/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved byCHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

OfficeCARLSBAD

02/15/2024

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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


**eog resources**  
**Jupiter 29 Fed Com 401H**
**Revised Permit Information 11/02/2023:**

Well Name: Jupiter 29 Fed Com 401H

Location: SHL: 2133' FNL &amp; 1806' FWL, Section 30, T-24-S, R-34-E, Lea Co., N.M.

BHL: 100' FNL &amp; 710' FWL, Section 19, T-24-S, R-34-E, Lea Co., N.M.

**Casing Program A:**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
16"	0	1,310	0	1,310	13-3/8"	54.5#	J-55	STC
11"	0	5,287	0	5,160	9-5/8"	40#	J-55	LTC
6-3/4"	0	18,240	0	10,555	5-1/2"	17#	HCP-110	LTC

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 11" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 11" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /sk	Slurry Description
1,310' 13-3/8"	350	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,110')
5,160' 9-5/8"	500	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	100	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,130')
18,240' 5-1/2"	300	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,660')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10210')

 **eog resources**  
**Jupiter 29 Fed Com 401H**

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

**Mud Program:**

Depth (TVD)	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,310'	Fresh - Gel	8.6-8.8	28-34	N/c
1,310' – 5,160'	Brine	8.6-8.8	28-34	N/c
5,160' – 18,240'	Oil Base	8.8-9.5	58-68	N/c - 6



## **TUBING REQUIREMENTS**

EOG respectfully requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:  
J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

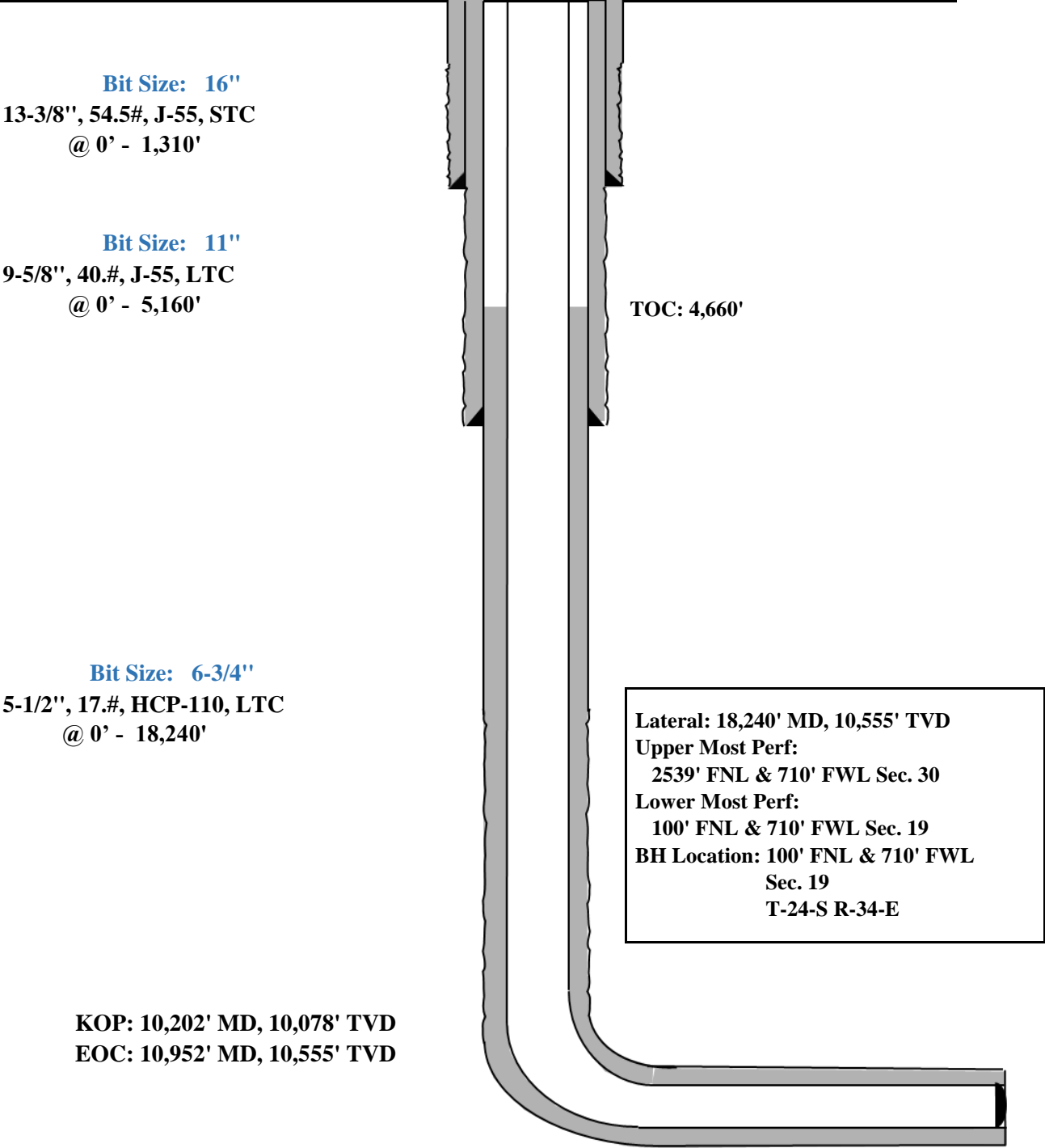
**eogresources**

Jupiter 29 Fed Com 401H

2133' FNL  
1806' FWL  
Section 30  
T-24-S, R-34-E

Revised Wellbore A:  
  
API: 30-025-52439

KB: 3569'  
GL: 3544'





## Jupiter 29 Fed Com 401H

## Revised Permit Information 11/02/2023:

Well Name: Jupiter 29 Fed Com 401H

Location: SHL: 2133' FNL &amp; 1806' FWL, Section 30, T-24-S, R-34-E, Lea Co., N.M.

BHL: 100' FNL &amp; 710' FWL, Section 19, T-24-S, R-34-E, Lea Co., N.M.

## Casing Program B:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13-1/2"	0	1,310	0	1,310	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,287	0	5,160	8-5/8"	32#	J-55	BTC-SC
6-3/4"	0	18,240	0	10,555	5-1/2"	17#	HCP-110	LTC

## Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,310' 10-3/4"	420	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	110	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,110')
5,160' 8-5/8"	410	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	660	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,130')
18,240' 5-1/2"	520	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,660')
	800	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10210')



**Jupiter 29 Fed Com 401H**

Variance is requested to waive the centralizer requirements for the 8-5/8" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

 **eog resources**  
Jupiter 29 Fed Com 401H

2133'  
1806'  
Section 30  
T-24-S, R-34-E

Revised Wellbore B:  
  
API: 30-025-52439

KB: 3569'  
GL: 3544'

Bit Size: 13-1/2"  
10-3/4", 40.5#, J-55, STC  
@ 0' - 1,310'

Bit Size: 9-7/8"  
8-5/8", 32.#, J-55, BTC-SC  
@ 0' - 5,160'

Bit Size: 6-3/4"  
5-1/2", 17.#, HCP-110, LTC  
@ 0' - 18,240'

TOC: 4,660'

Lateral: 18,240' MD, 10,555' TVD  
Upper Most Perf:  
2539' FNL & 710' FWL Sec. 30  
Lower Most Perf:  
100' FNL & 710' FWL Sec. 19  
BH Location: 100' FNL & 710' FWL  
Sec. 19  
T-24-S R-34-E

KOP: 10,202' MD, 10,078' TVD  
EOC: 10,952' MD, 10,555' TVD

**GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

**ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Rustler	1,195'
Tamarisk Anhydrite	1,280'
Top of Salt	1,730'
Base of Salt	5,055'
Lamar	5,305'
Bell Canyon	5,335'
Cherry Canyon	6,311'
Brushy Canyon	7,741'
Bone Spring Lime	9,238'
Leonard (Avalon) Shale	9,305'
1st Bone Spring Sand	10,253'
2nd Bone Spring Shale	10,621'
2nd Bone Spring Sand	10,772'
3rd Bone Spring Carb	11,315'
3rd Bone Spring Sand	11,838'
Wolfcamp	12,287'
TD	10,555'

**ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:**

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,335'	Oil
Cherry Canyon	6,311'	Oil
Brushy Canyon	7,741'	Oil
Leonard (Avalon) Shale	9,305'	Oil
1st Bone Spring Sand	10,253'	Oil
2nd Bone Spring Shale	10,621'	Oil
2nd Bone Spring Sand	10,772'	Oil

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 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

CONDITIONS  
  
Action 315009

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 315009
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/15/2024