

Submit a Copy To Appropriate District

## Office

District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-103  
 Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-50344
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No. 325384
3. Address of Operator P.O. Box 2267, Midland, Texas 79702		7. Lease Name or Unit Agreement Name Durango 2 State
4. Well Location Unit Letter <u>C</u> : <u>276</u> feet from the <u>North</u> line and <u>2052</u> feet from the West line Section <u>2</u> <u>25S</u> Township <u>33E</u> Range <u>NMNM</u> Lea County		8. Well Number <u>505H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3491' GR		9. OGRID Number <u>7377</u>
		10. Pool name or Wildcat 51020 Red Hills; Lower Bone Spring

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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

Update casing and cement program to current design.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Star L Harrell TITLE Sr Regulatory Specialist DATE 7/26/2022

Type or print name Star Harrell E-mail address: star\_harrell@eogresources.com PHONE: 432-848-9161

**For State Use Only**

APPROVED BY: P Kautz TITLE \_\_\_\_\_ DATE 07/28/2022  
 Conditions of Approval (if any): \_\_\_\_\_

**Durango 2 State 505H****Revised Permit Information 07/26/2022:**

Well Name: Durango 2 State 505H

Location: SHL: 267' FNL &amp; 2052' FWL, Section 2, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL &amp; 2140' FWL, Section 2, T-25-S, R-33-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)				
13-1/2"	0	1,300	0	1,300	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,005	0	4,000	8-3/4"	38.5#	P110-EC	Vam Sprint-SF
7-7/8"	0	5,035	4,000	5,030	8-3/4"	20#	P110-EC	DWC/C IS MS
0"	0	10,512	0	10,985	0"	#		

Variance is requested to waive the centralizer requirements for the 8-3/4" 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 0" casing in the 0" and 0" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 0" and 0" hole intervals to maximize cement bond and zonal isolation.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /sk	Slurry Description
1,300' 10-3/4"	380	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)
	90	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,100')
5,030' 8-3/4"	280	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	190	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,020')
15,911' 5-1/2"	670	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,530')
	1410	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 @ 10520')



**Durango 2 State 505H**

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 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 5,030'	Brine	8.6-8.8	28-34	N/c
5,030' – 15,911'	Oil Base	8.8-9.5	58-68	N/c - 6

**Wellhead & Offline Cementing:**

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational



Procedure"



267' FNL  
2052' FWL  
Section 2

Revised Wellbore A:

KB: 3516'  
GL: 3491'

T-25-S, R-33-E

API: 30-025-50344

**Bit Size: 13-1/2"**  
10-3/4", 40.5#, J-55, STC  
@ 0' - 1,300'

**Bit Size: 9-7/8"**  
8-3/4", 38.5#, P110-EC, Vam Sprint-SF  
@ 0' - 11,060'

TOC: 4,530'

**Bit Size: 7-7/8"**  
5-1/2", 20.#, P110-EC, DWC/C IS MS  
@ 0' - 15,911'

Lateral: 15,911' MD, 10,985' TVD  
Upper Most Perf:  
100' FNL & 2140' FWL Sec. 2  
Lower Most Perf:  
100' FSL & 2140' FWL Sec. 2  
BH Location: 100' FSL & 2140' FWL  
Sec. 2  
T-25-S R-33-E

KOP: 10,512' MD, 10,508' TVD  
EOC: 11,262' MD, 10,985' TVD



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**Santa Fe, NM 87505**

CONDITIONS

Action 128620

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 128620
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA's APPLY	7/28/2022