Received by OCD: 2/1/2022 3:42:00 PM Office	State of New Mexico	Form C-103 Revised July 18, 2013
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	WELL API NO. 30-025-40051 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. N/A
SUNDRY NOTICES (DO NOT USE THIS FORM FOR PROPOSALS DIFFERENT RESERVOIR. USE "APPLICATI PROPOSALS.) 1. Type of Well: Oil Well 🛛 Gas	S AND REPORTS ON WELLS S TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT" (FORM C-101) FOR SUCH S Well Other	7. Lease Name or Unit Agreement Name Caballo 23 Fed 8. Well Number 2H
2. Name of Operator EOG Resources. Inc.		9. OGRID Number 7377
3. Address of Operator P.O. Box 2267 Midland, Texas 79707		10. Pool name or Wildcat Red Hills; Upper Bone Spring Shale
4. Well Location Unit LetterC: Section 23	50feet from the _Northline and Township 25S Range 33E	_2200feet from the _Westline NMPM County Lea
11 33	1. Elevation (Show whether DR, RKB, RT, GR, etc. 345' GR	<i>c.)</i>

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK D PLUG AND ABANDON	REMEDIAL WORK
TEMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL	CASING/CEMENT JOB
DOWNHOLE COMMINGLE	
CLOSED-LOOP SYSTEM	
OTHER:	OTHER: Pilot Project monitoring

 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.

Pursuant to Order R-21061, EOG respectfully makes the following notice.

During the afternoon of 08/24/2022, EOG observed above average (>450 psig) intermediate casing pressures during Closed Loop Gas Capture (CLGC) injection on the Caballo 23 Fed #2H (API No. 30-025-40051). Injection was occurring on the production casing/tubing annulus with a peak pressure of 916 psig. As injection took place, the intermediate casing pressure rose steadily to a peak of 657 psig. Injection was ceased due to this behavior and EOG engineers were notified. On the morning of 08/25/2022, the intermediate casing was bled down and quickly returned to 0 psig after returning ~0.5 BBL of water with no gas. EOG pumped ~0.5 BBL of water back in and pressured up the intermediate casing to 1,000 psig, holding for 30 minutes. The pressure was increased to 1,500 psig, held for 15 minutes, and then bled down. EOG did not observe any behavior that indicated communication to the production casing or surface casing. As gas injection resumed, pressure peaked at 335 psig at 20:15 CDT on 08/25/2022 and declined after that. Prior to bleeding off on 08/26/2022 at 08:46 CDT, the intermediate casing pressure was at 266 psig.

The NMOCD was notified at 09:39 CDT on 08/26/2022. At the request of Mr. Dean McClure, EOG bled the intermediate casing down again later in the afternoon. Prior to bleeding off, the pressure was at 18 psig. The intermediate casing was bled down, taking about 1 minute to flow off $\sim 1/2$ gallon of water. The casing was left open for 15 minutes with zero flow observed. The pressure has remained near 0 psig as of 08/29/2022, regardless of whether EOG has been injecting or producing.

Upon closer examination of the pressure trends and the difference in the temperature of the gas lift gas versus the CLGC gas, it appears that the pressure fluctuations observed can be attributed to thermal expansion. The CLGC gas was initially warmer than the gas lift gas previously being injected. It was also at a significantly higher rate, reaching 6,000 MSCFD versus the gas lift injection rate of 200 MSCFD. It appears that the increased flow of hot gas elevated the heat transfer between the production casing and intermediate casing annulus, allowing for thermal expansion of fluids and a corresponding pressure increase. When injection occurred overnight, the cooler ambient temperatures allowed for a decrease in pressure until daylight, forming a sinusoidal pattern. This behavior is in-line with what was previously observed on 05/18/2020 and described in the form C-103 filed on 05/28/2020. Based on the data collected, EOG does not believe that the intermediate casing pressures are due to pressure communication from CLGC injection.

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 Sarah Mitchell	TITLE	DATE_8/30/2022
Type or print name _Sarah Mitchell For State Use Only	E-mail address: _sarah_mitchell@eogresou	rces.com_ PHONE: _432-848-9133

APPROVED BY: Dean	R	Millure	TITLE Petroleum Engineer	_{DATE} 09/01/2022	
Conditions of Approval (if any)):				

- Conduct the bleed off test again at the peak pressure of its cycle if the intermediate pressure exceeds 300 psi and provide the Division with the results.
 - o Bleed the pressure off
 - Monitor for flow for 15 minutes
 - Close the intermediate back in and monitor pressure
- Continue your protocol of contacting the Division if the intermediate pressure exceeds 450 psi.
- If the intermediate pressure exceeds 1000 psi, immediately cease injection and contact the Division.

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

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	140250
	Action Type:
	[C-103] NOI General Sundry (C-103X)

CONDITIONS

CONDITIONS						
Created By	Condition	Condition Date				
dmcclure	Conduct the bleed off test again at the peak pressure of its cycle if the intermediate pressure exceeds 300 psi and provide the Division with the results. o Bleed the pressure off o Monitor for flow for 15 minutes o Close the intermediate back in and monitor pressure	9/1/2022				
dmcclure	Continue your protocol of contacting the Division if the intermediate pressure exceeds 450 psi.	9/1/2022				
dmcclure	If the intermediate pressure exceeds 1000 psi, immediately cease injection and contact the Division.	9/1/2022				

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CONDITIONS

Action 140250