



## **Closed Loop Gas Capture**

**Ophelia 27 #1H**

**Q1 2023 Report**

## 1. Introduction

NMOCD Order R-21747, Paragraph 16, requires quarterly project status updates from EOG Resources on the Ophelia 27 #1H (30-025-41114) Closed Loop Gas Capture (CLGC) well. The following document outlines the activities that have taken place since the previous update submitted December 8, 2022.

## 2. Project Activity Summary

EOG increased usage of the Ophelia 27 #1H CLGC system since the previous report. This was due to increased market upsets during the report period. Injection occurred on 17 days. Volume data (Table 1) is included in Section 3 of this report and an analysis of production uptime and flare prevention impacts is included in Section 4.

## 3. Injection Data

Table 1 summarizes the daily injection totals for the dates that injection took place during the report period. The lengths of the injection periods are consistent with previous reports. The frequency of injection did increase, and the cumulative volume rose by 125% as compared to the previous report. This was strictly a function of market reliability during the report period.

No abnormal well behavior occurred during the report period. All casing pressures were within the specified ranges.

## 4. Operations Review

During the report period, EOG's deployment of the Ophelia 27 #1H CLGC system prevented an estimated 1,075 MT CO<sub>2e</sub> in flare emissions and allowed for the continued production of an estimated 3,685 BBL of oil, as broken down by month in Table 2.

Date	Injection Volume [MSCF]	Injection Time [hours]
12/07/2022	630	3.58
12/08/2022	297	3.28
12/09/2022	272	4.75
12/10/2022	89	3.23
12/14/2022	1,314	11.40
12/15/2022	300	5.79
12/22/2022	257	6.25
12/26/2022	132	1.91
01/29/2023	55	0.61
02/03/2023	1,749	14.83
02/09/2023	1,630	14.28
02/22/2023	349	2.70
02/23/2023	1,823	12.30
02/24/2023	219	1.79
03/06/2023	1,278	5.32
03/10/2023	62	0.64
03/11/2023	2,442	18.96
<b>Total</b>	<b>12,898</b>	<b>111.62</b>

**Table 1: Injection Volume Data for Report Period**

Month	Est. Associated Oil Volume [BBL]	Est. Flare Emissions Avoided [MT CO <sub>2</sub> e]
December	940	274
January	16	5
February	1,649	481
March	1,081	315
<b>Total</b>	<b>3,685</b>	<b>1,075</b>

**Table 2: Ophelia 27 #1H CLGC Associated Impact Data for Report Period**

## 5. Conclusion

Since the previous report submitted December 8, 2022, EOG utilized the Ophelia 27 #1H for CLGC injection on 17 days. The CLGC system prevented an estimated 1,075 MT CO<sub>2e</sub> in flare emissions and avoided the curtailment of an estimated 3,685 BBL of produced oil.

For the next report period, EOG will continue the regular use of the Ophelia 27 #1H as a CLGC injection well with ongoing data capture. Injected gas recovery and well behavior will continue to be monitored.

## 6. Contacts

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