Closed Loop Gas Capture

Ophelia 27 #1H

Q2 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 April 10, 2023.

2. Project Activity Summary

EOG maintained consistent usage of the Ophelia 27 #1H CLGC system since the previous report. Injection occurred on 15 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 frequency and lengths of the injection periods are consistent with the previous report. The injection periods are primarily centered around the last weeks of May. This is due to a string of third-party market outages that originated from both mechanical and weather events.

No abnormal well behavior occurred during the report period. All casing pressures were within the specified ranges and intermediate casing pressure remained stable. Gas recovery was consistent.

4. Operations Review

During the report period, EOG's deployment of the Ophelia 27 #1H CLGC system prevented an estimated 1,075 MT CO_2e in flare emissions and allowed for the continued production of an estimated 3,687 BBL of oil, as broken down by month in Table 2.

Date	Injection Volume [MSCF]	Injection Time [hours]
04/22/2023	982	4.80
04/23/2023	673	4.67
05/11/2023	1,782	12.85
05/12/2023	425	4.77
05/15/2023	1,370	11.87
05/16/2023	507	5.88
05/22/2023	1,570	11.70
05/23/2023	804	12.86
05/25/2023	1,439	10.90
05/26/2023	1,476	14.97
05/27/2023	185	3.47
05/28/2023	779	9.49
05/29/2023	1,013	10.40
05/31/2023	879	5.17
06/01/2023	3	0.07
Total	**12,905**	**123.87**

Table 1: *Injection Volume Data for Report Period*

Month	Est. Associated Oil Volume [BBL]	Est. Flare Emissions Avoided [MT CO_2e]
April	192	56
May	3,494	1,019
June (MTD)	1	<1
Total	**3,687**	**1,075**

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

5. Conclusion

Since the previous report submitted April 10, 2023, EOG utilized the Ophelia 27 #1H for CLGC injection on 15 days. The CLGC system prevented an estimated 1,075 MT CO_2e in flare emissions and avoided the curtailment of an estimated 3,687 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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