

SOUTHERN CALIFORNIA GAS COMPANY
Monthly Aliso Canyon Withdrawal Report

Response Dated March 3, 2021

Report Period Gas Day February 1, 2021 through Gas Day February 28, 2021

PUBLIC VERSION

Purpose

On July 23, 2019 the Energy Division of the California Public Utilities Commission (CPUC) issued a new Aliso Canyon Withdrawal Protocol (Withdrawal Protocol), replacing the Withdrawal Protocol that was issued on November 2, 2017.¹ The Withdrawal Protocol specifies the conditions when Southern California Gas Company (SoCalGas) may execute a withdrawal operation from the Aliso Canyon storage field. In addition, the Withdrawal Protocol contains certain noticing and reporting requirements, including the following:

In a monthly report to be provided on the third business day after each month in which withdrawals from Aliso Canyon occurred, SoCalGas shall provide the CPUC's Energy Division both a confidential and public report with a full description of the events and conditions leading up to the Aliso Canyon withdrawal(s). The report shall include:

1. the total and hourly withdrawals from the field;
2. the pre- and post-withdrawal Aliso Canyon working gas inventory;
3. the inventory of the non-Aliso fields before and after the Aliso Canyon withdrawal(s);
4. the geographical and/or the time price spread used in determining the OFO stages for the day(s) of the withdrawal(s) and the two days immediately preceding and following;
5. weather conditions in the SoCalGas service territory for the day(s) of the withdrawal(s) and the day immediately preceding the initiation of withdrawal(s);
6. the hourly pipeline receipts for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s);
7. the hourly withdrawals by field from non-Aliso storage facilities for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s);
8. the hourly system sendout for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s);
9. demand response activations and Dial It Down Alerts; and
10. information concerning any anomalies experienced during the operation of the field.

Pursuant to the Withdrawal Protocol, SoCalGas provides the following monthly report with respect to the withdrawals from Aliso Canyon that occurred from Gas Day February 1, 2021 through Gas Day February 28, 2021.²

¹ The Aliso Canyon Withdrawal Protocol dated July 23, 2019 was revised on April 1, 2020 to add two additional reporting requirements including reporting requirement 8. These changes did not alter the conditions under which SoCalGas may withdraw gas from Aliso Canyon.

² The report would include the gas day starting on the first day of the month and include the gas day that ends on the first day of the subsequent month. A gas day is from 7am to 7am the following day.

Summary

The table below provides the Aliso Canyon approximate withdrawal start times, withdrawal end times, and withdrawal volumes during February 2021.

Gas Day	Withdrawal Start	Withdrawal End	Withdrawal Volume in Billion Cubic Feet (Bcf)
02/03/2021	02/03/2021 10:11 PM PCT	(continued to next Gas Day)	0.115
02/04/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.143
02/05/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.367
02/06/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.314
02/07/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.423
02/08/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.541
02/09/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.514
02/10/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.267
02/11/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.513
02/12/2021	(continued from previous Gas Day)	02/13/2021 2:58 AM PCT	0.437
02/13/2021	02/13/2021 7:37 AM PCT	(continued to next Gas Day)	0.213
02/14/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.418
02/15/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.456
02/16/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.446
02/17/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.542
02/18/2021	(continued from previous Gas Day)	(continued to next Gas Day)	0.364
02/19/2021	(continued from previous Gas Day)	02/20/2021 3:28 AM PCT	0.164
02/21/2021	02/21/2021 7:30 AM PCT	(continued to next Gas Day)	0.141
02/22/2021	(continued from previous Gas Day)	02/22/2021 12:35 PM PCT	0.079

1. Total and hourly withdrawals from the (Aliso Canyon) field

Total Withdrawal during Report Period:
Approximately 6,456 million cubic feet (MMcf)

Hourly Withdrawal during Report Period:

Date/Time	Aliso Canyon Withdrawal (MMcf)
2/3/2021 23:00	
2/4/2021 0:00	
2/4/2021 1:00	
2/4/2021 2:00	
2/4/2021 3:00	
2/4/2021 4:00	
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2. Pre- and post-withdrawal Aliso Canyon working gas inventory³

The table below provides the approximate inventories of Aliso Canyon storage field, in billion cubic feet (Bcf), at the beginning and end of the withdrawal event(s).

Date-Time	Pre-Withdrawal Inventory (Bcf)	Date-Time	Post-Withdrawal Inventory (Bcf)
02/03/2021 7:00 AM	27.339	02/13/2021 7:00 AM	23.709
02/13/2021 7:00 AM	23.709	02/20/2021 7:00 AM	21.110
02/21/2021 7:00 AM	21.110	02/23/2021 7:00 AM	20.890

3. Inventory of the non-Aliso Canyon fields before and after the Aliso Canyon withdrawal(s)⁴

The table below provides the approximate inventories of the non-Aliso Canyon storage fields, in Bcf, at the beginning and end of the withdrawal event(s).

Date-Time	Pre-Withdrawal Inventory (Bcf)			Date-Time	Post-Withdrawal Inventory (Bcf)		
	Honor Rancho	La Goleta	Playa Del Rey		Honor Rancho	La Goleta	Playa Del Rey
02/03/2021 7:00 AM				02/13/2021 7:00 AM			
02/13/2021 7:00 AM				02/20/2021 7:00 AM			
02/21/2021 7:00 AM				02/23/2021 7:00 AM			

³ Inventory volumes are based on Gas Control system data and are subject to adjustment based on SoCalGas' routine monthly reconciliation between real-time SCADA system data, and the measurement data recorded by our Measurement Data Operations (MDO) department.

⁴ Inventory volumes are based on Gas Control system data and are subject to adjustment based on SoCalGas' routine monthly reconciliation between real-time SCADA system data, and the measurement data recorded by our Measurement Data Operations (MDO) department.

4. Geographical and/or the time price spread used in determining the OFO stages for the day(s) of the withdrawal(s) and the two days immediately preceding and following

The table below provides the geographical and time price spreads, in dollars per Dth (\$/Dth), for the day(s) of the withdrawal(s) and the two days immediately preceding and following.

Gas Day	Geographical Spread	Time Spread (next month)	Time Spread (two months ahead)
2/1/2021			
2/2/2021			
2/3/2021			
2/4/2021			
2/5/2021			
2/6/2021			
2/7/2021			
2/8/2021			
2/9/2021			
2/10/2021			
2/11/2021			
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2/21/2021			
2/22/2021			
2/23/2021			
2/24/2021			

5. Weather conditions in the SoCalGas service territory for the day(s) of the withdrawal(s) and the day immediately preceding the initiation of withdrawal(s)

Gas Day	Avg. Temp. (deg F)	Heating Degree Day (HDD)
02/02/2021	59	6
02/03/2021	56	9
02/04/2021	53	12
02/05/2021	55	10
02/06/2021	56	9
02/07/2021	55	10
02/08/2021	55	10
02/09/2021	55	10
02/10/2021	56	9
02/11/2021	56	9
02/12/2021	57	8
02/13/2021	55	10
02/14/2021	59	6
02/15/2021	55	10
02/16/2021	57	8
02/17/2021	55	10
02/18/2021	54	11
02/19/2021	57	8
02/20/2021	56	9
02/21/2021	57	8
02/22/2021	59	6

6. Hourly pipeline receipts (MMcf) for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s)



Confidential_Receipts(Feb2021).xlsx

7. Hourly withdrawals by field (MMcf) from non-Aliso Canyon storage facilities for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s)



Confidential_nonAlisoWithdrawal(Feb2

8. Hourly system sendout for the calendar day(s) on which a withdrawal was made and the day immediately preceding the initiation of withdrawal(s)



Confidential_Sendout(Feb2021).xlsx

9. Demand response activations and Dial It Down Alerts

SoCalGas did not declare any Smart Therm demand response events or issue any Dial-It-Down alerts in February 2021.

10. Information concerning any anomalies experienced during the operation of the field

On February 6, 2021, at approximately 8:16 AM, the surface safety valve on Porter 42-A closed immediately after the well was placed on withdrawal. The well was temporarily taken out of service. The surface safety valve on the well is designed to automatically close and shut in the well when the sacrificial sand probe is triggered. The probe was inspected, and a crack at the radius was identified. No erosion was found on the probe. A new probe was installed, and the well was placed back into service at approximately 10:00 AM on Monday, February 8, 2021. While the well was out of service, the impact on the field's withdrawal capability was ■■■MMscfd.

On February 16, 2021, at approximately 1:30 AM, the surface safety valve on Porter 26-A closed immediately after the well was placed on withdrawal. The well was temporarily taken out of service. The surface safety valve on the well is designed to automatically close and shut in the well when the sacrificial sand probe is triggered. The probe was inspected, and a crack at the radius was identified. No erosion was found on the probe. A new probe was installed, and the well was placed back into service at approximately 9:20 AM on, February

17, 2021. While the well was out of service, the impact on the field's withdrawal capability was ■■■MMscfd.

On Thursday, February 18, 2021, at approximately 11:10 PM, the tubing withdrawal header valve handle on Fernando Fee 35E un-threaded from the valve stem. The surface safety valve was closed and the well was temporarily taken out of service. The valve handle was inspected and repaired. The valve handle was repaired by tightening the packing screws which connect the valve handle to the valve stem. The well was placed back into service at approximately 7:30 AM on Friday, February 19, 2021. While the well was out of service, the impact on the field's withdrawal capability was ■■■MMscfd.