

SOUTHERN CALIFORNIA GAS COMPANY
Monthly Aliso Canyon Withdrawal Report
Response Dated
April 3, 2020
Report Period
Gas Day March 1, 2020 through Gas Day March 31, 2020
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 March 1, 2020 through Gas Day March 31, 2020.²

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 March 2020.

Gas Day	Withdrawal Start	Withdrawal End	Withdrawal Volume in Billion Cubic Feet (Bcf)
03/12/2020	03/12/2020 1:05 PM PCT	(continued to next Gas Day)	0.600
03/13/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.601
03/14/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.421
03/15/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.358
03/16/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.679
03/17/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.587
03/18/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.589
03/19/2020	(continued from previous Gas Day)	(continued to next Gas Day)	0.444
03/20/2020	(continued from previous Gas Day)	03/21/2020 3:10 AM PCT	0.200

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

Total Withdrawal during Report Period:
Approximately 4,479 million cubic feet (MMcf)

Hourly Withdrawal during Report Period:

Date-Time	Aliso Canyon Withdrawal (MMcf)
3/12/2020 14:00	
3/12/2020 15:00	
3/12/2020 16:00	
3/12/2020 17:00	
3/12/2020 18:00	
3/12/2020 19:00	
3/12/2020 20:00	
3/12/2020 21:00	
3/12/2020 22:00	
3/12/2020 23:00	
3/13/2020 0:00	
3/13/2020 1:00	
3/13/2020 2:00	
3/13/2020 3:00	
3/13/2020 4:00	
3/13/2020 5:00	
3/13/2020 6:00	
3/13/2020 7:00	
3/13/2020 8:00	
3/13/2020 9:00	
3/13/2020 10:00	
3/13/2020 11:00	
3/13/2020 12:00	
3/13/2020 13:00	
3/13/2020 14:00	
3/13/2020 15:00	
3/13/2020 16:00	
3/13/2020 17:00	
3/13/2020 18:00	
3/13/2020 19:00	
3/13/2020 20:00	
3/13/2020 21:00	
3/13/2020 22:00	
3/13/2020 23:00	

3/14/2020 0:00	
3/14/2020 1:00	
3/14/2020 2:00	
3/14/2020 3:00	
3/14/2020 4:00	
3/14/2020 5:00	
3/14/2020 6:00	
3/14/2020 7:00	
3/14/2020 8:00	
3/14/2020 9:00	
3/14/2020 10:00	
3/14/2020 11:00	
3/14/2020 12:00	
3/14/2020 13:00	
3/14/2020 14:00	
3/14/2020 15:00	
3/14/2020 16:00	
3/14/2020 17:00	
3/14/2020 18:00	
3/14/2020 19:00	
3/14/2020 20:00	
3/14/2020 21:00	
3/14/2020 22:00	
3/14/2020 23:00	
3/15/2020 0:00	
3/15/2020 1:00	
3/15/2020 2:00	
3/15/2020 3:00	
3/15/2020 4:00	
3/15/2020 5:00	
3/15/2020 6:00	
3/15/2020 7:00	
3/15/2020 8:00	
3/15/2020 9:00	
3/15/2020 10:00	
3/15/2020 11:00	
3/15/2020 12:00	
3/15/2020 13:00	
3/15/2020 14:00	
3/15/2020 15:00	
3/15/2020 16:00	

3/15/2020 17:00	
3/15/2020 18:00	
3/15/2020 19:00	
3/15/2020 20:00	
3/15/2020 21:00	
3/15/2020 22:00	
3/15/2020 23:00	
3/16/2020 0:00	
3/16/2020 1:00	
3/16/2020 2:00	
3/16/2020 3:00	
3/16/2020 4:00	
3/16/2020 5:00	
3/16/2020 6:00	
3/16/2020 7:00	
3/16/2020 8:00	
3/16/2020 9:00	
3/16/2020 10:00	
3/16/2020 11:00	
3/16/2020 12:00	
3/16/2020 13:00	
3/16/2020 14:00	
3/16/2020 15:00	
3/16/2020 16:00	
3/16/2020 17:00	
3/16/2020 18:00	
3/16/2020 19:00	
3/16/2020 20:00	
3/16/2020 21:00	
3/16/2020 22:00	
3/16/2020 23:00	
3/17/2020 0:00	
3/17/2020 1:00	
3/17/2020 2:00	
3/17/2020 3:00	
3/17/2020 4:00	
3/17/2020 5:00	
3/17/2020 6:00	
3/17/2020 7:00	
3/17/2020 8:00	
3/17/2020 9:00	

3/17/2020 10:00	
3/17/2020 11:00	
3/17/2020 12:00	
3/17/2020 13:00	
3/17/2020 14:00	
3/17/2020 15:00	
3/17/2020 16:00	
3/17/2020 17:00	
3/17/2020 18:00	
3/17/2020 19:00	
3/17/2020 20:00	
3/17/2020 21:00	
3/17/2020 22:00	
3/17/2020 23:00	
3/18/2020 0:00	
3/18/2020 1:00	
3/18/2020 2:00	
3/18/2020 3:00	
3/18/2020 4:00	
3/18/2020 5:00	
3/18/2020 6:00	
3/18/2020 7:00	
3/18/2020 8:00	
3/18/2020 9:00	
3/18/2020 10:00	
3/18/2020 11:00	
3/18/2020 12:00	
3/18/2020 13:00	
3/18/2020 14:00	
3/18/2020 15:00	
3/18/2020 16:00	
3/18/2020 17:00	
3/18/2020 18:00	
3/18/2020 19:00	
3/18/2020 20:00	
3/18/2020 21:00	
3/18/2020 22:00	
3/18/2020 23:00	
3/19/2020 0:00	
3/19/2020 1:00	
3/19/2020 2:00	

3/19/2020 3:00	
3/19/2020 4:00	
3/19/2020 5:00	
3/19/2020 6:00	
3/19/2020 7:00	
3/19/2020 8:00	
3/19/2020 9:00	
3/19/2020 10:00	
3/19/2020 11:00	
3/19/2020 12:00	
3/19/2020 13:00	
3/19/2020 14:00	
3/19/2020 15:00	
3/19/2020 16:00	
3/19/2020 17:00	
3/19/2020 18:00	
3/19/2020 19:00	
3/19/2020 20:00	
3/19/2020 21:00	
3/19/2020 22:00	
3/19/2020 23:00	
3/20/2020 0:00	
3/20/2020 1:00	
3/20/2020 2:00	
3/20/2020 3:00	
3/20/2020 4:00	
3/20/2020 5:00	
3/20/2020 6:00	
3/20/2020 7:00	
3/20/2020 8:00	
3/20/2020 9:00	
3/20/2020 10:00	
3/20/2020 11:00	
3/20/2020 12:00	
3/20/2020 13:00	
3/20/2020 14:00	
3/20/2020 15:00	
3/20/2020 16:00	
3/20/2020 17:00	
3/20/2020 18:00	
3/20/2020 19:00	

3/20/2020 20:00	
3/20/2020 21:00	
3/20/2020 22:00	
3/20/2020 23:00	
3/21/2020 0:00	
3/21/2020 1:00	
3/21/2020 2:00	
3/21/2020 3:00	
3/21/2020 4:00	

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)
03/12/2020 7:00 AM	21.352	03/21/2020 7:00 AM	16.879

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
03/12/2020 7:00 AM				03/21/2020 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)
03/10/2020			
03/11/2020			
03/12/2020			
03/13/2020			
03/14/2020			
03/15/2020			
03/16/2020			
03/17/2020			
03/18/2020			
03/19/2020			
03/20/2020			
03/21/2020			
03/22/2020			

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)
03/11/2020	62	3
03/12/2020	56	9
03/13/2020	56	9
03/14/2020	57	8
03/15/2020	56	9
03/16/2020	54	11
03/17/2020	51	14
03/18/2020	51	14
03/19/2020	51	14
03/20/2020	55	10

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.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_nonAlisoWithdrawals.xlsx

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.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 March 2020.

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

On March 18, 2020 at approximately 1:55 pm, the facility was called to go on withdrawal, however, Fernando Fee 32F well (FF-32F) could not be placed on withdrawal due to a malfunctioning header valve. The valve was greased and exercised by operations personnel. By approximately 3:00 pm that afternoon, FF-32F was placed back in service. The temporary impact on the field's withdrawal capability was ■■■ MMSCF/D.

On March 18, 2020 at approximately 8:30 am, a separator at the Porter Gathering Plant experienced an elevated liquid level. The separator was isolated and taken out of service for inspection during which time the process flow was diverted to another separator. The results of the inspection indicated there was a transitory restriction that cleared on its own. All control equipment was verified to be in working order and the separator was returned to service by approximately 1:00 pm on March 19, 2020. There was no impact on withdrawal operations.