

SOUTHERN CALIFORNIA GAS COMPANY
Monthly Aliso Canyon Withdrawal Report
Revised Response Dated October 2, 2020
Report Period Gas Day August 1, 2020 through Gas Day August 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 August 1, 2020 through Gas Day August 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 August 2020.

Gas Day	Withdrawal Start	Withdrawal End	Withdrawal Volume in Billion Cubic Feet (Bcf)
08/13/2020	08/13/2020 10:57 AM PCT	08/14/2020 12:05 AM PCT	0.290
08/14/2020	08/14/2020 9:26 AM PCT	08/15/2020 3:52 AM PCT	0.503
08/15/2020	08/15/2020 1:48 PM PCT	08/15/2020 10:10 PM PCT	0.209
08/16/2020	08/16/2020 1:49 PM PCT	08/16/2020 11:59 PM PCT	0.197
08/17/2020	08/17/2020 8:00 AM PCT	08/17/2020 10:00 PM PCT	0.374
08/18/2020	08/18/2020 8:43 AM PCT	08/18/2020 11:38 PM PCT	0.407
08/19/2020	08/19/2020 2:24 PM PCT	08/19/2020 9:53 PM PCT	0.226
08/20/2020	08/20/2020 8:03 AM PCT	08/20/2020 10:15 PM PCT	0.150
08/26/2020	08/26/2020 2:22 PM PCT	08/26/2020 10:00 PM PCT	0.062 ³

³ The daily volume for Aliso Canyon on Gas Day August 26 is ~62 MMcf. There was a manual correction made to the Aliso Canyon withdrawal volumes for Gas Day August 26, which increased the volume from ~62 MMcf to 74 MMcf. On August 27, after further reviewing the data captured in SCADA, it was discovered that Aliso Canyon withdrawal was in fact being captured correctly and the manual correction made to the Aliso Canyon withdrawal volumes was unnecessary. The added volumes should have been subtracted out from SoCalGas' records but were not subtracted out before SoCalGas updated its Aliso Daily Log (the source used for gathering storage withdrawal volumes for the Aliso Canyon Withdrawal Protocol reports). Therefore, for Gas Day August 26, the Aliso Canyon withdrawal volume published in the Aliso Daily Log (and the volume reported in the August Aliso Canyon Withdrawal Protocol report) [74 MMcf] is greater than the aggregate of the Gas Day August 26 SCADA hourly Aliso Canyon withdrawal volumes [~62 MMcf]; the latter is correct.

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

Total Withdrawal during Report Period:
Approximately 2,430 million cubic feet (MMcf)

Hourly Withdrawal during Report Period:

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

8/15/2020 4:00	
8/15/2020 14:00	
8/15/2020 15:00	
8/15/2020 16:00	
8/15/2020 17:00	
8/15/2020 18:00	
8/15/2020 19:00	
8/15/2020 20:00	
8/15/2020 21:00	
8/15/2020 22:00	
8/15/2020 23:00	
8/16/2020 14:00	
8/16/2020 15:00	
8/16/2020 16:00	
8/16/2020 17:00	
8/16/2020 18:00	
8/16/2020 19:00	
8/16/2020 20:00	
8/16/2020 21:00	
8/16/2020 22:00	
8/16/2020 23:00	
8/17/2020 0:00	
8/17/2020 9:00	
8/17/2020 10:00	
8/17/2020 11:00	
8/17/2020 12:00	
8/17/2020 13:00	
8/17/2020 14:00	
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8/18/2020 14:00	
8/18/2020 15:00	
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8/18/2020 19:00	
8/18/2020 20:00	
8/18/2020 21:00	
8/18/2020 22:00	
8/18/2020 23:00	
8/19/2020 0:00	
8/19/2020 15:00	
8/19/2020 16:00	
8/19/2020 17:00	
8/19/2020 18:00	
8/19/2020 19:00	
8/19/2020 20:00	
8/19/2020 21:00	
8/19/2020 22:00	
8/20/2020 9:00	
8/20/2020 10:00	
8/20/2020 11:00	
8/20/2020 12:00	
8/20/2020 13:00	
8/20/2020 14:00	
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8/20/2020 20:00	
8/20/2020 21:00	
8/20/2020 22:00	
8/20/2020 23:00	

8/26/2020 16:00	
8/26/2020 17:00	
8/26/2020 18:00	
8/26/2020 19:00	
8/26/2020 20:00	
8/26/2020 21:00	
8/26/2020 22:00	

2. Pre- and post-withdrawal Aliso Canyon working gas inventory⁴

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)
08/13/2020 7:00 AM	33.027	08/14/2020 7:00 AM	32.738
08/14/2020 7:00 AM	32.738	08/15/2020 7:00 AM	32.247
08/15/2020 7:00 AM	32.247	08/16/2020 7:00 AM	32.085
08/16/2020 7:00 AM	32.085	08/17/2020 7:00 AM	31.902
08/17/2020 7:00 AM	31.902	08/18/2020 7:00 AM	31.554
08/18/2020 7:00 AM	31.554	08/19/2020 7:00 AM	31.147
08/19/2020 7:00 AM	31.147	08/20/2020 7:00 AM	30.922
08/20/2020 7:00 AM	30.922	08/21/2020 7:00 AM	30.806
08/26/2020 7:00 AM	30.989	08/27/2020 7:00 AM	30.927

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.

3. Inventory of the non-Aliso Canyon fields before and after the Aliso Canyon withdrawal(s)⁵

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
08/13/2020 7:00 AM				08/14/2020 7:00 AM			
08/14/2020 7:00 AM				08/15/2020 7:00 AM			
08/15/2020 7:00 AM				08/16/2020 7:00 AM			
08/16/2020 7:00 AM				08/17/2020 7:00 AM			
08/17/2020 7:00 AM				08/18/2020 7:00 AM			
08/18/2020 7:00 AM				08/19/2020 7:00 AM			
08/19/2020 7:00 AM				08/20/2020 7:00 AM			
08/20/2020 7:00 AM				08/21/2020 7:00 AM			
08/26/2020 7:00 AM				08/27/2020 7:00 AM			

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)
08/11/2020			
08/12/2020			
08/13/2020			
08/14/2020			
08/15/2020			
08/16/2020			
08/17/2020			

⁵ 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.

08/18/2020						
08/19/2020						
08/20/2020						
08/21/2020						
08/22/2020						
08/24/2020						
08/25/2020						
08/26/2020						
08/27/2020						
08/28/2020						

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)
08/12/2020	78	0
08/13/2020	84	0
08/14/2020	85	0
08/15/2020	86	0
08/16/2020	85	0
08/17/2020	85	0
08/18/2020	86	0
08/19/2020	86	0
08/20/2020	84	0
08/25/2020	81	0
08/26/2020	80	0

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(Aug2020).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(Aug

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(Aug2020).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 August 2020.

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

On August 13, 2020, at approximately 10:57 am, the sacrificial sand probe on Standard Sesnon 44 B was triggered, which in turn caused the surface safety valve on this well to automatically close as designed and shut in the well. The well was temporarily taken out of service. The probe was inspected, and a stress fracture was identified, however, no erosion was found on the probe. A new probe was installed, and the well was placed back into service at approximately 1:05 pm on August 13, 2020. While the well was out of service, the impact on the field's withdrawal capability was [REDACTED].

On August 13, 2020 at approximately 4:41 pm, a separator upstream of the dehydration systems experienced an elevated liquid level. The inspection indicated the higher level resulted from a plugged strainer. The strainer was cleaned, and the control equipment were verified to be in working order. The separator was returned to service by approximately 5:00 pm on August 13, 2020. There was no impact on withdrawal operations.

On August 13, 2020, at approximately 5:45 pm, the sacrificial sand probe on Fernando Fee 35B was triggered, which in turn caused the surface safety valve on this well to automatically close as designed and shut in the well. The well was temporarily taken out of service. The probe was inspected, and a stress fracture was identified, however, no erosion was found on the probe. A new probe was installed, and the well was placed back into service at approximately 1:55 pm on August 14, 2020. While the well was out of service, the impact on the field's withdrawal capability was [REDACTED].

On August 13, 2020, at approximately 5:45 pm, the sacrificial sand probe on Porter 50B was triggered, which in turn caused the surface safety valve on this well to automatically close as designed and shut in the well. The well was temporarily taken out of service. The probe was inspected and found to be damaged. A new probe was installed, and a sand test was conducted. The first sand test showed no signs of erosion, but the sand test coupons were damaged. A second sand test was conducted with a smaller choke. No signs of erosion or damage were observed on the second sand test coupons. The well was placed back into service at approximately 6:55 pm on August 18, 2020. While the well was out of service, the impact on the field's withdrawal capability was [REDACTED].

On August 14, 2020 at approximately 2:15 am, a high pressure alarm was triggered on Porter 44. The well was removed from service for inspection to determine the cause of the anomalous pressure. The well's surface equipment was inspected and eliminated as a potential source of the pressure anomaly. On August 15, 2020, noise and temperature surveys were run on the well, and a tubing collar leak was identified at 7120'. The well remained out of service and on August 17, 2020 the well was isolated from the reservoir by setting a mechanical plug in the tubing and filling both tubing and casing with fluid to surface. The well will remain out of service until remedial work is completed. While the well is out of service, the impact on the field's withdrawal capability is [REDACTED].

On August 15, 2020 at approximately 7:09 pm, the glycol separator pumps on the Dehydration 1 unit were found to have low pressure at the pump suction which resulted in the glycol not flowing properly. Operations addressed this issue by initiating a gas sweep of the glycol system. There was no impact on withdrawal operations.

On August 17, 2020 at approximately 2:57 pm, the glycol separator pumps on the Dehydration 1 unit were found to have low pressure at the pump suction which resulted in the glycol not flowing properly. Operations addressed this issue by initiating a gas sweep of the glycol system. To mitigate the issue, the Dehydration 2 unit was started up such that the process flow could be split between the two dehydration units. There was no impact on withdrawal operations.

On August 17, 2020 at approximately 10:23 pm, an alarm was triggered on the condensate pump for the Dehydration 2 unit as a result of a connection issue. An inspection of the pump resulted in an adjustment to pump sensing line. The pump was placed back into service by 3:00 pm on August 18, 2020. During the inspection a technician manually operated the pump. There was no impact on withdrawal operations.

On August 18, 2020 at approximately 1:56 pm, a separator upstream of the dehydration systems experienced an elevated liquid level. The inspection indicated the higher level resulted from a plugged strainer. The strainer was cleaned, and the control equipment was verified to be in working order. The separator was returned to service by approximately 2:05 pm on August 18, 2020. There was no impact on withdrawal operations.

On August 18, 2020 at approximately 3:45 pm, a heater on the Dehydration 2 unit shut down due to high ambient temperature. The inspection indicated that the heater shut down due to high temperature in the electrical panel. The panel doors were opened to allow the unit temperature to decrease before it was placed back into service at approximately 6:35 pm on August 18, 2020. During the inspection a technician manually operated the heater to maintain the operating temperature. There was no impact on withdrawal operations.