

SOUTHERN CALIFORNIA GAS COMPANY
Monthly Aliso Canyon Withdrawal Report

Response Dated

January 6, 2020

Report Period

Gas Day December 1, 2019 through Gas Day December 31, 2019

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. 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. demand response activations and Dial It Down Alerts; and
9. 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 December 1, 2019 through Gas Day December 31, 2019.¹

¹ 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 December 2019.

| Gas Day | Withdrawal Start | Withdrawal End | Withdrawal Volume in Billion Cubic Feet (Bcf) |
|----------------|-----------------------------------|-----------------------------|--|
| 12/01/2019 | 12/01/2019 7:01 AM PCT | (continued to next Gas Day) | 0.418 |
| 12/02/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.249 |
| 12/03/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.184 |
| 12/04/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.153 |
| 12/05/2019 | (continued from previous Gas Day) | 12/05/2019 4:46 PM PCT | 0.038 |
| | | | |
| 12/11/2019 | 12/11/2019 7:16 AM PCT | 12/12/2019 2:24 AM PCT | 0.166 |
| | | | |
| 12/16/2019 | 12/16/2019 7:20 AM PCT | (continued to next Gas Day) | 0.567 |
| 12/17/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.951 |
| 12/18/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 1.140 |
| 12/19/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.712 |
| 12/20/2019 | (continued from previous Gas Day) | 12/20/2019 9:38 PM PCT | 0.185 |
| | | | |
| 12/23/2019 | 12/23/2019 11:34 AM PCT | 12/24/2019 2:41 AM PCT | 0.351 |
| | | | |
| 12/24/2019 | 12/24/2019 7:11 AM PCT | (continued to next Gas Day) | 0.171 |
| 12/25/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.076 |
| 12/26/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.765 |
| 12/27/2019 | (continued from previous Gas Day) | 12/28/2019 5:51 AM PCT | 0.499 |
| | | | |
| 12/29/2019 | 12/29/2019 7:18 AM PCT | (continued to next Gas Day) | 0.449 |
| 12/30/2019 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.449 |
| 12/31/2019 | (continued from previous Gas Day) | 12/31/2019 2:10 PM PCT | 0.059 |

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

Total Withdrawal during Report Period:
Approximately 7,582 million cubic feet (MMcf)

Hourly Withdrawal during Report Period:

| Date-Time | Aliso Canyon Withdrawal (MMcf) |
|------------------|---|
| 12/1/2019 7:00 | |
| 12/1/2019 8:00 | |
| 12/1/2019 9:00 | |
| 12/1/2019 10:00 | |
| 12/1/2019 11:00 | |
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| 12/1/2019 20:00 | |
| 12/1/2019 21:00 | |
| 12/1/2019 22:00 | |
| 12/1/2019 23:00 | |
| 12/2/2019 0:00 | |
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| 12/2/2019 4:00 | |
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| 12/2/2019 11:00 | |
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| 12/2/2019 13:00 | |
| 12/2/2019 14:00 | |
| 12/2/2019 15:00 | |

| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| 12/2/2019 16:00 | |
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| 12/2/2019 20:00 | |
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| 12/2/2019 22:00 | |
| 12/2/2019 23:00 | |
| 12/3/2019 0:00 | |
| 12/3/2019 1:00 | |
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| 12/3/2019 20:00 | |
| 12/3/2019 21:00 | |
| 12/3/2019 22:00 | |
| 12/3/2019 23:00 | |
| 12/4/2019 0:00 | |
| 12/4/2019 1:00 | |
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| 12/4/2019 4:00 | |
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| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| 12/4/2019 7:00 | |
| 12/4/2019 8:00 | |
| 12/4/2019 9:00 | |
| 12/4/2019 10:00 | |
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| 12/4/2019 22:00 | |
| 12/4/2019 23:00 | |
| 12/5/2019 0:00 | |
| 12/5/2019 1:00 | |
| 12/5/2019 2:00 | |
| 12/5/2019 3:00 | |
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| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| 12/11/2019 11:00 | |
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| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| Date-Time | Aliso Canyon Withdrawal (MMcf) |
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| 12/30/2019 14:00 | |
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2. Pre- and post-withdrawal Aliso Canyon working gas inventory²

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) |
|-----------------------|---------------------------------------|-----------------------|--|
| 12/01/2019 7:00 AM | 32.573 | 12/06/2019 7:00 AM | 31.532 |
| 12/11/2019 7:00 AM | 31.770 | 12/12/2019 7:00 AM | 31.604 |
| 12/16/2019 7:00 AM | 31.667 | 12/21/2019 7:00 AM | 28.120 |
| 12/23/2019 7:00 AM | 28.120 | 12/24/2019 7:00 AM | 27.769 |
| 12/24/2019 7:00 AM | 27.769 | 12/28/2019 7:00 AM | 26.260 |
| 12/29/2019 7:00 AM | 26.260 | 01/01/2020 7:00 AM | 25.276 |

² 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. On Gas Day 12/30/2019, the following storage field inventory adjustment was made (in MMcf): Aliso Canyon (-27).

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

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 |
| 12/01/2019 7:00 AM | | | | 12/06/2019 7:00 AM | | | |
| 12/11/2019 7:00 AM | | | | 12/12/2019 7:00 AM | | | |
| 12/16/2019 7:00 AM | | | | 12/21/2019 7:00 AM | | | |
| 12/23/2019 7:00 AM | | | | 12/24/2019 7:00 AM | | | |
| 12/24/2019 7:00 AM | | | | 12/28/2019 7:00 AM | | | |
| 12/29/2019 7:00 AM | | | | 01/01/2020 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. On Gas Day 12/30/2019, the following storage field inventory adjustments were made (in MMcf): Honor Rancho (-22), La Goleta (-2), and Playa Del Rey (-50).

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) |
|----------------|----------------------------|---------------------------------|---------------------------------------|
| 11/29/2019 | | | |
| 11/30/2019 | | | |
| 12/1/2019 | | | |
| 12/2/2019 | | | |
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| 01/01/2020 | | | |
| 01/02/2020 | | | |

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) |
|----------------|---------------------------|---------------------------------|
| 11/30/2019 | 51 | 14 |
| 12/01/2019 | 57 | 8 |
| 12/02/2019 | 55 | 10 |
| 12/03/2019 | 56 | 9 |
| 12/04/2019 | 58 | 7 |
| 12/05/2019 | 59 | 6 |
| | | |
| 12/10/2019 | 53 | 12 |
| 12/11/2019 | 54 | 11 |
| | | |
| 12/15/2019 | 53 | 12 |
| 12/16/2019 | 51 | 14 |
| 12/17/2019 | 50 | 15 |
| 12/18/2019 | 48 | 17 |
| 12/19/2019 | 49 | 16 |
| 12/20/2019 | 54 | 11 |
| | | |
| 12/22/2019 | 55 | 10 |
| 12/23/2019 | 51 | 14 |
| 12/24/2019 | 50 | 15 |
| 12/25/2019 | 50 | 15 |
| 12/26/2019 | 46 | 19 |
| 12/27/2019 | 48 | 17 |
| 12/28/2019 | 47 | 18 |
| 12/29/2019 | 48 | 17 |
| 12/30/2019 | 52 | 13 |
| 12/31/2019 | 54 | 11 |

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_Recei
pts.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_nonAl
isoWithdrawals.xlsx

8. 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 December 2019.

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

On December 16, 2019 at approximately 2:30 p.m., a heater on the Dehydration (Dehy) 1 unit was shut down due to an anomaly related to the pilot ignitor and regulator, and another heater was placed in service. A new regulator was installed, and the heater was placed back into service by approximately 5:40 p.m. the same day. There was no impact on withdrawal operations.

On December 17, 2019 at approximately 10:50 p.m., the sacrificial sand probe on Fernando Fee-32F 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 crack 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 2:00 p.m. on December 18, 2019. The impact on the field's withdrawal capability was ■ MMSCF/D.

On December 18, 2019 at approximately 7:30 a.m., the sacrificial sand probe on Fernando Fee-32 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 crack 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 1:00 p.m. on December 18, 2019. The impact on the field's withdrawal capability was ■ MMSCF/D.

On December 18, 2019 at approximately 8:30 a.m., the sacrificial sand probe on Fernando Fee-35D 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 crack 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 3:30 p.m. on December 18, 2019. The impact on the field's withdrawal capability was ■■■ MMSCF/D.

On December 26, 2019 at approximately 3:15 p.m., the sacrificial sand probe on Fernando Fee-35D was triggered due to erosion on the probe, which in turn caused the surface safety valve on this well to automatically close as designed and shut in the well. The well was taken out of service. A smaller choke was installed and a sand test was conducted on December 30, 2019; the well remains out of service while the results of the sand test are pending. If the sand test results indicate the well passed, it will be placed back into service. If not, the well will remain out of service and the choke size will be adjusted, and another sand test will be conducted to evaluate erosion rate. The impact on the field's withdrawal capability has been ■■■ MMSCF/D.

On December 27, 2019 at approximately 10:50 a.m., a heater on the Dehy 2 unit was shut down due to an anomaly related to the pilot ignitor and regulator, and the withdrawal gas was diverted to Dehy 1. A new regulator was installed the same day. Before placing the heater back in service, it underwent a tune up at which time a sensor failure was identified. The sensor was replaced, and the heater was placed back into service by approximately 11:30 a.m. on December 28, 2019. There was no impact on withdrawal operations.