*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 November 1, 2020 through Gas Day November 30, 2020. [2]

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[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 November 2020.

| Gas Day | Withdrawal Start | Withdrawal End | Withdrawal Volume in Billion Cubic Feet (Bcf) |
|---|---|---|---|
| 11/09/2020 | 11/09/2020 7:45 AM PCT | (continued to next Gas Day) | 0.212 |
| 11/10/2020 | (continued from previous Gas Day) | (continued to next Gas Day) | 0.357 |
| 11/11/2020 | (continued from previous Gas Day) | 11/11/2020 8:20 PM PCT | 0.120[3] |

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[3] There was a total of 0.128 Bcf of withdrawal from Aliso Canyon on Gas Day 11/11/2020. Approximately 7.32 MMcf (0.00732 Bcf) of withdrawal was used for cleanup flow testing.

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

Total Withdrawal during Report Period:
Approximately 689 million cubic feet (MMcf)

Hourly Withdrawal during Report Period:

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

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| 11/10/2020 17:00 |
| 11/10/2020 18:00 |
| 11/10/2020 19:00 |
| 11/10/2020 20:00 |
| 11/10/2020 21:00 |
| 11/10/2020 22:00 |
| 11/10/2020 23:00 |
| 11/11/2020 0:00 |
| 11/11/2020 1:00 |
| 11/11/2020 2:00 |
| 11/11/2020 3:00 |
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| 11/11/2020 21:00 |
| 11/11/2020 22:00 |
| 11/11/2020 23:00 |
| 11/12/2020 0:00 |
| 11/12/2020 1:00 |
| 11/12/2020 2:00 |
| 11/12/2020 3:00 |
| 11/12/2020 4:00 |
| 11/12/2020 5:00 |
| 11/12/2020 6:00 |
| 11/12/2020 7:00 |

## 2. Pre- and post-withdrawal Aliso Canyon working gas inventory[4]

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) |
|---|---|---|---|
| 11/09/2020 7:00 AM | 33.561 | 11/12/2020 7:00 AM | 32.865 |

## 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).

| | Pre-Withdrawal Inventory (Bcf) | | | | Post-Withdrawal Inventory (Bcf) | | |
|---|---|---|---|---|---|---|---|
| Date-Time | Honor Rancho | La Goleta | Playa Del Rey | Date-Time | Honor Rancho | La Goleta | Playa Del Rey |
| 11/09/2020 7:00 AM | | | | 11/12/2020 7:00 AM | | | |

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[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.

[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.

*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) |
|---|---|---|---|
| 11/07/2020 | | | |
| 11/08/2020 | | | |
| 11/09/2020 | | | |
| 11/10/2020 | | | |
| 11/11/2020 | | | |
| 11/12/2020 | | | |
| 11/13/2020 | | | |

*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) |
|---|---|---|
| 11/08/2020 | 52 | 13 |
| 11/09/2020 | 50 | 15 |
| 11/10/2020 | 51 | 14 |
| 11/11/2020 | 53 | 12 |

**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(Nov2020).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(Nov

**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_Sendo
ut(Nov2020).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 November 2020.

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

On November 10, 2020, at approximately 6:54 am, the sacrificial sand probe on Porter 42-A was triggered, which in turn caused the surface safety valve on the 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 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 5:45 pm on the same day. While the well was out of service, the impact on the field's withdrawal capability was ▮ MMscfd.

On November 10, 2020, at approximately 7:37 am, the sacrificial sand probe on Porter 68-A 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 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 5:30 pm on the same day. While the well was out of service, the impact on the field's withdrawal capability was ▮ MMscfd.

On November 10, 2020, at approximately 7:59 am, the sacrificial sand probe on Fernando Fee 32-B was triggered, which in turn caused the surface safety valve on the 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 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 6:00 pm on the same day.  While the well was out of service, the impact on the field's withdrawal capability was ███ MMscfd.