

AGI Wells Intervention history: Milestone Progress Report Content Recommendation

Acid Gas Injection Progress Reporting Requirements

The progress report highlights any anomalies of importance to operator and OCD and furnishes OCD with information to establish that the provisions of the approval are being met. The Report may include data submitted to OCD through other reporting outlets but is still required to provide a comprehensive single report of all relevant analyses and source data.

- 1) Details of any workover or treatment program done on the well with reasons for the workover, workover daily reports and results of the workover,
- 2) A general review of the operation of the project:
 - identification of problems, corrective action taken and results of the corrective action on project performance,
- 3) A copy of **MIT** and **Bradenhead** Test performed.
- 4) Any gas analyses gathered as a condition of the approval for AGI well and on wells on AOR wells that penetrate the injection zone of the AGI well. Even if the AOR wells don't belong to the operator of AGI well, an effort should be made to acquire gas analyses on those wells and make the results available to OCD and Public.
- 5) A summary table of monthly data for all pertinent operating conditions, from the start of disposal. See sample Table. And
 - Plots of average daily rate, pressure, and wellhead temperature.
 - Plots of monthly injection volume and average tubing, casing and, if possible, bottom hole pressure versus time on an ongoing basis
 - A plot of current year daily casing pressure values and disposal rates, with an appropriate scale to show variation in pressures.
- 6) Safety valve testing results with comparison to previous tests (a valve operational track record). ESD functional test? (Get testing requirement from API or manufacturer's)
- 7) A summary of seismicity data for events that have been identified. If no events have occurred, note this in the report.
- 8) An assessment of all monitoring conducted during reporting period including corrosion protection, bio acid treatment, logs, reservoir summary and any other data gathered including data from AOR wells (if there are any)
- 9) Discussion of the overall performance of the project and remaining reservoir storage capacity/life calculation,
- 10) Any other reporting that is required as a condition of the approval.

Active Acid Gas Injection wells (14)

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| 1 | 30-015-31294 | AGI SWD No. 1 | OXY USA WTP Limited Partnership | E-23-21S-23E | 2139' FNL & 1061' FWL | Acid gas plus onsite waste water | Devonian | Open hole: 10,350 to 11,000 | New well | Produced water and gas plant waste | Water only (0 BBLs) | Water (61,349,061 BBLs) | 2070 psi; no differentiation for liquid vs. gas | 5-year MIT cycle | 10/21/2020 | 10/21/2025 | 50% - 50% | SWD-784-0 | NA | NA | 8/14/2000 | Indian Basin Gas Processing Plant | Not required under current operating conditions. | | Replacement well for Indian Basin Com Well No. 1; no record of inclusion in H ₂ S plan; no gas injection reported; daily injection reporting required as part of the Dagger Draw Seismic Response Area (SRA). | |
| 2 | 30-025-21497 | Eunice Gas Plant SWD No. 1 | Targa Midstream Services | L-27-22S-37E | 2580' FSL & 1200' FWL | Acid gas and wastewater | San Andres | Open-hole: 4,250 to 4,950 | Conversion of existing well | Gas plant waste | Water (15,066 BBLs) Gas (89,671 MCF) | Water (6411,682 BBLs) Gas (9491,706 MCF) | 1600 psi (see R-12809-D) | 1-year MIT cycle (see R-12809-D) | 1/18/2022 | 1/18/2023 | 85% SO ₂ - 15% | SWD-1161-0 | R-12809-D | 13865 and 14575 | 3/27/2012 | Eunice Gas Plant | H2S-048-0 (Revised 2020) | 3/27/2022 | Originally approved as new well under Order No. R-12809 (Case No. 13865); SWD order allowed for substitution of proposed well with existing well; gas disposal reporting initiated in 2011. 10th anniversary is due 03/27/2022 | |
| 3 | 30-015-32324 | Duke AGI No. 1 | DCP Operating Company | O-7-18S-28E | 1232' FSL & 1927' FEL | Treated acid gas | Devonian | Perfs: 11,200 to 11,500 | New well | Acid gas | Gas only (30,459 MCF) | Gas (6,799,764 MCF) | Gas (with SpG of 0.8): 3,240 psi Water: 2,240 psi | 5-year MIT cycle with mandatory monthly reports of well parameters | 7/16/2020 | 7/16/2025 | 35% - 63% | SWD-838-B | None | NA | 11/5/2002 | Artesia Gas Plant | H2S-051-0 (Feb 2015) | Monthly report being submitted. Last reports-May 2022 | Pressures reported are below Maximum Surface Injection Pressure (MSIP) for gas; annual MIT requirement on page 2. Ordering Paragraph (3), SWD-838-B. | Nicholas L. Casarose@dcpmidstream.com 5758025225 |
| 4 | 30-015-31905 | Metropolis Disposal No. 1 | Agave Energy | K-36-18S-25E | 1650' FSL & 1650' FWL | Treated acid gas | Devonian, Fusselman, and Montoya | Open hole: 9,930 to 10,500 | Re-entry | Acid gas | Gas only (12,629 MCF) | Gas (894,256 MCF) | 3,280 psi | MIT every 2 years | 3/24/2022 | 3/24/2024 | 61% - 38% | SWD-936-0 | R-13371 | 14601 | 3/14/2011 | Dagger Draw Gas Plant | H2S-054-0 (June 2012) | | Pressures reported are below MSIP. There is no annual reporting of well parameters as per R-13371. Even though R-13371 equips the operator to provide OCD with MIT every two years, the operator has been providing OCD with annual MIT | Kim Hamlet 5758106055, khamlet@lucid-energy.com |
| 5 | 30-025-40448 | Red Hills AGI No. 1 | Lucid Energy Delaware, LLC | I-13-24S-33E | 1600' FSL & 150' FEL | Treated acid gas | Cherry Canyon | Perfs: 6,230 to 6,585 | New well | Acid gas | Gas only (57,743 MCF) | Gas (1,843,857 MCF) | 2,085 psi; not to exceed 13 MMSCFD | MIT every 2 years | 3/8/2022 | 3/8/2024 | 5% - 95% | NA | R-13507-F | 14720 | 11/9/2017 | Red Hills Gas Plant | H2S-064-0 (April 2018) | 07/28/22 | Order No. R-13507 was original design specification; was changed ownership; previously drilled but not perforated until recently (well was TA for a period without final perforations); amended order required to re-install injection authority | |
| 7 | 30-025-40420 | Majmar AGI No. 1 | Frontier Field Services | O-21-17S-32E | 130' FSL & 1813' FEL | Treated acid gas | Lower Leonard and Wolfcamp | Perfs: 9,579 to 10,130 | New well | Gas processing waste | Gas only (24,235 MCF) | Gas (3,415,268 MCF) | 3,200 psi; not to exceed 3.5 MMSCFD | Annual MIT | 7/7/2022 | 7/7/2023 | 12% - 88% | NA | R-13443-A | 14664 and 15193 | 8/11/2011 | Majmar Gas Processing Plant | H2S-044-0 (Revised Oct 2015) | 10/8/2022 | Order No. R-13443 has original design specification; Order No. R-13443-C permits a 3.5 MMSCFD into both wells or for a single operating well; Administrative Order IPH454 increases MSIP to 3,200 psi. | |
| 8 | 30-025-42628 | Majmar AGI No. 2 | Frontier Field Services | O-21-17S-32E | 400' FSL & 2100' FEL | Treated acid gas | Lower Leonard and Wolfcamp | Perfs: 9,600 to 10,220 | New well | Gas processing waste | Gas only (35,890 MCF) | Gas (2,108,968 MCF) | 3,200 psi; not to exceed 3.5 MMSCFD | Annual MIT | 7/11/2022 | 7/11/2023 | 12% - 88% | NA | R-13443-B | 15193 | 11/19/2014 | Majmar Gas Processing Plant | H2S-044-0 (Revised Oct 2015) | 10/8/2022 | Order No. R-13443-C permits a 3.5 MMSCFD into both wells or for a single operating well; Administrative Order IPH506 increases MSIP to 3,200 psi. Form C-115 reporting incomplete for June 2019 through May 2019. | |
| 9 | 30-025-38576 | Linam AGI No. 1 | DCP Operating Company | K-30-18S-37E | 1980' FSL & 1980' FWL | Treated acid gas | Lower Bone Springs (Wolfcamp) | Perfs: 8,710 to 9,085 | New well | Gas processing waste | Gas only (130,056 MCF) | Gas (14,727,720 MCF) | Gas (with SpG of 0.8): 2,644 psi | Annual MIT following new packer installation (Ordering Paragraph (2); Commission Order R-12546-K) | 11/10/22 | 11/10/2023 | 25% - 75% | NA | R-12546-K | 13589 | 5/6/2006 | Linam Ranch Gas Processing Plant | H2S-043-0 (Revised Jan 2015) | 01/09/23 | Commission Order R-12546 with amended orders A through K cover both AGI wells; No. 1 well developed leaking tube set (failed MIT) requiring additional hearings on restricted operation and additional monitoring / reporting requirements that are now SOP for AGI wells; R-12546-I removed temporary rate and pressure limits; MIT requirements being reviewed | |
| 10 | 30-025-42139 | Linam AGI No. 2 | DCP Operating Company | K-30-18S-37E | 1600' FSL & 1750' FWL | Treated acid gas | Lower Bone Springs (Wolfcamp) | Perfs: 8765 to 9006 | New well | Gas processing waste | Gas only (0 MCF) | Gas (4,052,029) | Gas (with SpG of 0.8): 2,644 psi | Annual MIT | 2/14/2022 | 2/14/2023 | 25% - 75% | NA | R-12546-K | 13589 | 2/14/2013 | Linam Ranch Gas Processing Plant | H2S-043-0 (Revised Jan 2015) | 01/09/23 | Commission Order R-12546 with amended orders A through K cover both AGI wells; Bottom Hole Sensors in AGI #2 are not operating because they were damaged in a lightning strike shortly after AGI #2 was commissioned, however, because the injection zones for AGI #1 and AGI #2 are only about 450 feet | |
| 11 | 30-025-38822 | Jal 3 AGI No. 1 | ETC Field Services | E-33-24S-37E | 1550' FNL & 1000' FWL | Acid gas and production water | San Andres | Perfs: 4375 to 5200 | New well | Gas and liquid plant waste | Water only (83,000 BBLs) | Water (14,574,829 BBLs) | 986 psi for original mixed liquid and gas injection; temporary 1,330 psi gas only (ended 12/8/2015) | MIT every 2 years | 1/19/2022 | 1/19/2024 | 20% - 78% | NA | R-12921 | 14080 | 3/21/2008 | South Eunice Gas Processing Plant | H2S-045-0 (Revised 2016) | | Temporary MSIP increase approved and ended 12/11/2015; C-115 reports show all produced water with no gas injection and pressures below MSIP of 986 psi. | 5058428000.dale@gelex.com email to find out if only water has been injected. And, to submit yearly AGI progress report as per order requirement. |
| 12 | 30-025-42208 | Zia AGI No. 1 | DCP Operating Company | Lot 3 (L)-19S-32E | 2100' FSL & 950' FWL | Treated acid gas | Cherry Canyon and Brushy Canyon | Perfs: 5682 to 6260 | New well | Gas processing waste | Gas only (372 BBL) July 2021 | Gas (1,474,033 MCF) | 2,233 psi | MIT annually | 2/14/2022 | 2/14/2023 | 11% - 89% | NA | R-13809 | 15073 | 3/13/2014 | Zia II Gas Processing Plant | H2S-063-0 (Revised 2016) | 01/09/23 | Order No. R-13809-A approved new surface and bottom-hole locations for both wells. *Redundant back-up well to Zia D No. 2 requires order modification before Commission. | Quarterly reports are being submitted in timely manner. |
| | 30-025-42207 | Zia AGI D No. 2 | DCP Operating Company | Lot 3 (L)-19S-32E | 1893' FNL & 950' FWL | Treated acid gas | Devonian and Silurian | Open hole: 13755 to 14750 | New well | Gas processing waste | Gas only (118,169 MCF) | Gas (9,719,944 MCF) | 5,028 psi | MIT annually | 2/14/2022 | 2/14/2023 | 11% - 89% | NA | R-14207 | 15528 | 9/6/2016 | Zia II Gas Processing Plant | H2S-063-0 (Revised 2016) | 01/00/00 | Operator modified injection interval to Devonian section through Commission hearing and used existing APD approval for deeper well; the original Zia AGI No. 2 well never spud. | Quarterly reports are being submitted in timely manner. |
| 14 | 30-025-43470 | Monument AGI D No. 2 | Targa Midstream Services | O-36-19S-36E | 685' FSL & 2362' FEL | Treated acid gas | Devonian and Silurian | Open hole: 8350 to 9210 | New well | Gas processing waste | Gas only (47,789 MCF) | Gas (4,145,120 MCF) | 3,000 psi; not to exceed 5.0 MMSCFD | MIT annually | 1/18/2022 | 1/18/2023 | 18% - 82% | SWD-1654-0 | R-13052-B | 15740 | 9/6/2016 | Monument Gas Processing Plant | H2S-046-0 (Revised 2018) | 10/08/22 | Replacement well approved through administrative order using content of Commission Order No. R-13052 (as amended) as template. | |
| 20 | 30-025-48081 | Independence AGI No. 1 | Pinon Midstream, LLC | C-20-25S-36E | 829' FNL & 1443' FWL | Treated acid gas | Devonian and Silurian | Open hole: 16,129 to 17,750 | New well | Gas processing waste | Gas only (110,765 MCF) | Gas (425,913 MCF) | 4,779 psig ; combined 12 MMSCFD with Independence AGI No. 1 | MIT annually | 7/14/2022 | 7/14/2023 | 30%-70% | NA | R-21455-A | 21381 | 11/4/2020 | Dark Horse Gas Treatment Facility | H2S-67-0 (2021) | 01/14/23 | | |