

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.

Sample Table for AGI Wells Milestone Progress Report -Content Recommendation

[illegible]

Active Acid Gas Injection wells (14)

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 report-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. Casarcase@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-instate 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 IP-454 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 IP-456 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 (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 detection zones for AGI #1 and AGI #2 are only about 450 feet	
11	30-025-38622	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 12/1/2015; C-115 reports show all produced water with no gas injection and pressures below MSIP of 986 psi.	5058428000.dale@geolex.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)-19-19S-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)-19-19S-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 MMSCFPD	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		