

**2025 MECHANICAL INTEGRITY TESTING AND
PRESSURE FALLOFF TESTING REPORT
REPUBLIC INDUSTRIAL & ENERGY SOLUTIONS, LLC**

WELL NO. 2-12

**API No. 21-163-M453
EPA Permit No. MI-163-1W-C0011
Michigan EGLE Permit No. M-453
Romulus, MI**

September 2025

Houston, TX



Project No. 192128UESS.7160

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (U.S. EPA), requirements included in the Class I UIC permit number MI-163-1W-C011 granted to Republic Industrial and Energy Solutions, LLC (Republic) and with the State of Michigan Administrative Rule R299.2393 (MI Permit #M-453) the annual mechanical integrity testing was performed on Well No. 2-12 on August 28, 2025 to demonstrate the mechanical integrity of the casing, packer, and tubing.

Republic Industrial and Energy Solutions, LLC (Republic) retained WSP USA (WSP) to perform the annual mechanical integrity testing on Well No. 2-12 at Republic’s facility in Romulus, MI. The mechanical integrity tests included a Radioactive Tracer Survey, Temperature Survey, and an Annulus Pressure Test. All tests were conducted in accordance with United States Environmental Protection Agency (USEPA) 40 CFR 146.8 and 146.13(b)(3), (c)(2)(i), and (d). Approved testing procedures are included as Appendix A.

In addition to the mechanical integrity testing, a bottom hole pressure falloff test (Ambient Pressure Monitoring) was run in Well No. 2-12 to assist in evaluating the injection zone. A chronology of field activities is included as Appendix B. Wellhead and wellbore schematics of Well No. 2-12 are included as Figures 1 and 2, respectively.

2.0 REPORT OF FIELD OPERATIONS

All depths in this report, unless otherwise noted, are referenced to the Kelly Bushing (KB) elevation which is 13 feet above the ground level elevation for Well No. 2-12. A wellbore schematic of Well 2-12 is presented as Figure 2. A chronological report of field activities is presented as Appendix B.

Republic performed the annulus pressure test (APT) on August 28, 2025, to demonstrate that there is no significant leak in the tubing, casing or packer. JoAnne Mitock with Environmental Solutions AQ (support for USEPA Region 5) and Brian Hohentanner with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) witnessed and passed the test. The annulus pressure test results are detailed in Section 3.0.

Field wireline operations began on August 25, 2025, when Michigan Wireline spotted and rigged up on the well with Casing Collar Locator (CCL) and Temperature Survey tools. A radioactive tracer survey (RTS) was run on August 26, 2025. A pre-survey base log and 5-minute statistical checks were ran with no injection. Injection was initiated at 43 gallons (gpm), then a slug of radioactive material was released at 3100 feet. A dissipated slug was located at approximately 4069 feet with Chase Pass No. 4. A slug of radioactive material was ejected at 3750 feet, and the lower gamma ray detector was run downhole and positioned at 3960 feet to observe the slug passing by and monitor for any upward migration. The time-drive survey was conducted for approximately 30 minutes at 47 gpm and 315 psi injection pressure. To conclude the RTS, the well was shut-in and the post-survey log was run. The radioactive tracer survey results are detailed in Section 4.0.

On August 28, 2025, Impact Completions spotted and rigged up slickline with memory-type bottom-hole pressure gauges. The memory gauges were run downhole and set at 3975 feet (top gauge at 3973 feet). Injection was initiated at 0815 hours. Republic began to discontinue injection of plant effluent into Well 2-12 at 2030 hours on August 28, 2025. The pressure falloff was monitored for approximately 24.2 hours and was concluded on August 29, 2025. While pulling the gauges out of the well, static pressure gradient stops were made at 3000 feet, 2000 feet, 1000 feet, and at the surface. Well 1-12 was shut-in throughout the build-up and falloff period. The falloff test and bottom hole static pressure gradient results are detailed in Sections 5.0 and 6.0, respectively.

3.0 ANNULUS PRESSURE TEST

An Annulus Pressure Test (APT) was conducted on Well #2-12 on Monday, August 25, 2025, during which JoAnne Mitock with Environmental Solutions AQ (support for USEPA Region 5) and Brian Hohentanner with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) witnessed and passed the test. Between 01:24 PM (CST) and 01:29 PM (CST), the annulus pressure was increased from 690 psig to 1119 psig. The official APT was started at 01:31 PM (CST) at a pressure of 1132.1 psig. One hour later at 02:31 PM (CST), the annulus pressure had declined to 1125.7 psig which was a decrease of 2.55 psi (-0.6%) and within the $\pm 3\%$ /hour allowed by the EPA Region 5.

A plot of the APT is provided as Figure 3, and a table of the APT data is provided as Appendix C. A calibration certificate for the digital pressure gauge is included in Appendix D. Signed copy of the Standard Annular Pressure Test Form is provided as Appendix E.

4.0 DIFFERENTIAL TEMPERATURE SURVEY

A differential temperature survey was conducted in well 2-12 on August 25, 2025, by Michigan Wireline from surface to 4262 feet after the well was shut-in for a minimum of 36 hours, in accordance with US EPA Region 5 UIC Branch – Regional Guidance #5.

The differential Temperature survey was run from the surface to 4262 feet at an average logging speed of 26.6 ft/min. The well was full of fluid and had 0 psi surface pressure. The Differential temperature survey shows a gradual increase in temperature, with no anomalous temperature changes, from approximately 58 °F near the surface to 76 °F at 4262 feet. From 3900 feet to 3935 feet (packer depth, the temperature gradually decreased from 81 °F to 78.5 °F. Below the packer, the formation temperature continued to decrease to a low of 76 °F at a depth of 4200 feet

The absence of anomalous temperature changes in the differential temperature survey demonstrates that no fluid movement has occurred outside of the protection casing in well 2-12. The differential temperature survey, therefore, demonstrated well 2-12 has external mechanical integrity. A copy of the Temperature Survey is included as Exhibit 1 and a completed EPA Temperature Survey form that includes information of the survey is included as Appendix F.1.

5.0 RADIOACTIVE TRACER SURVEY

A Radioactive Tracer Survey was run in Well #2-12 on August 26, 2025. The survey was conducted using the facility's pump and fresh water. After correlating the log with the top of the packer set at 3930 feet, the tool tagged bottom at 4263 feet.

A Base Pass was made from 4263 feet to 3000 feet, and 5-minute statistical checks were made at 3800 feet and 3855 feet. While injecting into the well at 47 gal/min, a 4-second slug of radioactive material (Iodine-131) was released at 3100 feet. Four Chase Passes were made through the radioactive slug as it traveled down the tubing and dissipated into the Injection Interval, below the 7-inch protection casing set at 4075 feet, dissipating at approximately 4124 feet. A summary of the Chase Passes with flow rate is provided as Table 1. No radioactive material was detected exiting the well above the Injection Interval, demonstrating the external mechanical integrity of the well.

The injection rate was kept at 47 gal/min, and a 4-second slug of radioactive material was released at 3750 feet. The upper and lower gamma ray detectors were then positioned at 3,951 feet and 3,960 feet, respectively. At 14:07:47 the slug passed by the upper gamma ray detector, and 20 seconds later at 14:08:07, the slug passed by the lower gamma ray detector. Approximately 70 seconds after the radioactive slug passed by each gamma ray detector, the level of radiation returned to background levels on both gamma ray detectors and remained at background levels for the duration of the time-drive survey. The time-drive survey was terminated at 14:39:57 which was 32 minutes after the radioactive slug passed by the lower gamma ray detector. No vertical migration was detected during the time-drive survey, demonstrating the base of the 7-inch protection casing cement had mechanical integrity.

Finally, after 30 minutes the tool was returned to 4263 feet and a final base log was run to 3000 feet this final pass and the base pass are plotted together to establish that no RA material moved up hole past the packer at any point during testing. No RA material migration upward from the packer was noted during any of the testing.

A copy of the Radioactive Tracer Survey is included as Exhibit 2. Appendix F.2 provides a completed EPA Radioactive Tracer Survey Form with background information of the Well #2-12 survey. A letter of interpretation is presented as Appendix G.

6.0 PRESSURE FALLOFF ANALYSIS

Pressure falloff testing was conducted on Well 2-12 from August 28, 2025, through August 29, 2025. A Badger Low Temp, Serial No. 91874 pressure gauge was utilized during the testing. The gauge calibration certificates are presented in Appendix D and show the gauges have been calibrated as specified by the gauge manufacturer.

Injection Period

The rate data used in the analysis of the falloff pressure data was the injection period on August 28, 2025, through shut-in. Well 2-12 had been shut in during the falloff test injection period for Well 1-12 (August 26-27, 2025) and remained shut in through the commencement of the injection period for Well 2-12 on August 28, 2025. Injection resumed on August 28, 2025 at 0827 hours, then continued for approximately 12.1 hours. General well and reservoir information is presented in Table 2. Information pertinent to the injection period is presented in Table 3.

Falloff Period

Well 2-12 was shut in at 2034 hours on August 28, 2025 and remained shut-in for approximately 19.4 hours while the bottom-hole pressure and temperature were recorded. Appendix H lists the pressure and temperature data recorded during the test. Table 4 contains information pertinent to the falloff period of the test.

Analysis of Falloff Test

The pressure data obtained during the falloff test were analyzed utilizing the commercially available pressure transient analysis software program PanSystem[®]. The PanSystem[®] output for the analysis of this test is presented in Appendix I. Impact Completion's pressure test report is presented as Appendix J. A completed EPA Pressure Falloff Test Form is provided in Appendix K.

Figure 4 shows the pressure response recorded by the bottom-hole pressure tool from the time the tool was in place through the 19.4-hour shut-in period. Figure 5 is a Cartesian plot of the pressure data recorded during the falloff period. The superposition time function was used to account for all rate changes during the injection buildup period of the testing.

Figure 6 is a log-log diagnostic plot of the falloff data, showing change in pressure and pressure derivative versus elapsed shut-in time. Radial flow begins to appear at an elapsed time following shut-in of 3.602 hours and continues until an elapsed time following shut-in of 10.723 hours. The radial flow regime is indicated on Figure 7.

The reservoir permeability was determined from the radial flow region of the superposition Horner plot (Figure 7). The radial flow regime begins at a superposition Horner time of 4.365 and continues until 2.131. Figure 8 shows an expanded view of the superposition Horner plot. The slope of the radial flow period was determined to be 20.144 psi/cycle.

An estimate of mobility-thickness, kh/μ , for the reservoir was determined from the following equation:

$$\frac{kh}{\mu} = 162.6 * \frac{qB}{m}$$

Where,

- kh/μ = formation mobility-thickness, millidarcy-feet/centipoise
- q = rate prior to shut-in, bpd
- B = formation volume factor, reservoir volume/surface volume
- m = slope radial flow period, psi/cycle

With the following values, the mobility-thickness was found to be 11,978 md-ft/cp:

- q = 1483.92 barrels/day (43.28 gallons/minute)
- m = 20.144 psi/cycle
- B = 1.0 reservoir barrel/surface barrel

$$\begin{aligned} \frac{kh}{\mu} &= 162.6 \frac{(1483.92)(1.0)}{20.144} \\ &= 11,978 \text{ md-ft/cp} \end{aligned}$$

The permeability-thickness, kh , was determined to be 16,051 md-ft by multiplying the mobility-thickness, kh/μ , by the viscosity of the formation fluid viscosity, $\mu_{\text{formation}}$, of 1.34 centipoise:

$$\begin{aligned} kh &= \left(\frac{kh}{\mu}\right) \mu_{\text{waste}} \\ &= (11978) (1.34) \\ &= 16,051 \text{ md-ft} \end{aligned}$$

The average reservoir permeability using the total thickness of 133 feet was determined to be 120.68 md:

$$\begin{aligned} k &= \frac{(kh)}{h} \\ &= \frac{16051}{133} \\ &= 120.68 \text{ md} \end{aligned}$$

To determine whether the pressure transient was indeed beyond the waste front, the travel time for the pressure transient to pass beyond the waste front was calculated. The distance to the waste front is determined from the following equation:

$$r_{waste} = \left(\frac{0.13368 V}{\pi h \phi} \right)^{1/2}$$

Where:

- r_{waste} = radius to waste front, feet
- V = total volume injected into the injection interval, gallons
- h = formation thickness, feet
- ϕ = formation porosity, fraction
- 0.13368 = constant

The time necessary for a pressure transient to travel this distance is calculated from the following equation:

$$t_{waste} = 948 \frac{\phi \mu_{waste} c_t r_{waste}^2}{k}$$

Where:

- t_{waste} = time for pressure transient to reach waste front, hours
- ϕ = formation porosity, fraction
- μ_{waste} = viscosity of the waste at reservoir conditions, centipoise
- r_{waste} = radius to waste front, feet
- c_t = total compressibility of the formation and fluid, psi
- k = formation permeability, millidarcies
- 948 = constant

Combining the previous two equations results in:

$$t_{waste} = 126.73 \frac{V \mu_{waste} c_t}{\pi k h}$$

The waste viscosity is 0.80 centipoise at reservoir conditions, while viscosity of brine in the reservoir is 1.34 centipoise. A cumulative volume of approximately 153,827,597 gallons of waste has been injected the injection interval (from both Well 1-12 & 2-12) since injection began. The formation has a porosity of 0.11 and a total compressibility of 6.20×10^{-6} psi⁻¹. The time necessary for a pressure transient to traverse the distance from the wellbore to the leading edge of the waste front, would then be 1.92 hours:

$$t = 126.73 \frac{(153,827,597)(0.80)(6.20 \times 10^{-6})}{(\pi)(120.68)(133)}$$
$$= 1.92 \text{ hours}$$

Since the radial flow period occurred from 3.602 to 10.723 hours elapsed time following shut-in, the use of the formation brine fluid viscosity for calculating permeability during the radial flow period was valid.

The skin factor was determined from the following equation:

$$s = 1.151 \left[\frac{P_{wf} - P_{1hr}}{m} - \log \left(\frac{k}{\phi \mu c_t r_w^2} \right) + 3.23 \right]$$

Where,

- s = formation skin damage at open perforations, dimensionless
- 1.151 = constant
- p_{wf} = flowing pressure immediately prior to shut-in, psia
- p_{1hr} = pressure determined by extrapolating the radial flow semi-log line to a Δt of one hour, psi
- m = slope of the radial flow semi-log line, psi/cycle
- k = permeability of the formation, md
- ϕ = porosity of the injection interval, fraction
- μ = viscosity of the fluid the pressure transient is traveling through, centipoise
- c_t = total compressibility of the formation plus fluid, psi^{-1}
- r_w = radius of the wellbore, feet
- 3.23 = constant

The final flowing pressure was 2,035.78 psia. The pressure determined by extrapolating the radial flow semi-log line to a Δt of one hour, p_{1hr} , was 1,892.21 psia. The porosity of the injection interval, ϕ , is 0.11 and the total compressibility, c_t , is $6.2 \times 10^{-6} \text{ psi}^{-1}$. The wellbore radius, r_w , is 0.3645 feet. Using these values in addition to the previously determined parameters, m and k, results in a skin of 1.57:

$$s = 1.151 \left[\frac{2035.78 - 1892.21}{20.144} - \log \left(\frac{120.68}{(0.11)(1.34)(6.2 \times 10^{-6})(0.3645)^2} \right) + 3.23 \right]$$

$$= 1.57$$

The change in pressure, Δp_{skin} , in the wellbore associated with the skin factor was determined to be 27.4 psi using the slope of the straight-line portion of the radial flow plot, the calculated skin factor, and the following equation:

$$\Delta p_{skin} = 0.869 \text{ ms}$$

Where:

- 0.869 = constant
- m = slope from superposition plot of the well test, psi/cycle
- s = skin factor calculated from the well test

$$\Delta p_{skin} = 0.869 (20.144) (1.57)$$

$$\Delta p_{skin} = 27.4 \text{ psi}$$

The flow efficiency (E) was determined from the following equation:

$$E = \frac{p_{wf} - p^* - \Delta p_{skin}}{p_{wf} - p^*}$$

Where:

- E = flow efficiency, fraction
- p_{wf} = flowing pressure prior to shutting in the well for the falloff, 2035.78 psia
- p^* = pressure extrapolated to an infinite shut-in time from the straight-line portion of the radial flow plot, 1869.68 psia
- Δp_{skin} = pressure change due to skin damage, 27.4 psi

Substituting these values, the flow efficiency was calculated to be 0.835:

$$E = \frac{2035.78 - 1869.68 - (27.4)}{2035.78 - 1869.68}$$
$$= 0.835$$

Table 5 presents a summary of calculated test data determined from the analysis.

Table 6 presents a summary of the results determined from the analysis.

7.0 BOTTOM-HOLE PRESSURE MEASUREMENT AND STATIC GRADIENT SURVEY

On August 29, 2025, a static gradient survey was performed while pulling the pressure gauges out of the well. Gradient stops were made at 3000 feet, 2000 feet, 1000 feet 500 feet, and at the surface. The bottom-hole pressure and temperature, after approximately 24 hours of shut-in at 3975 feet, were 1883.98 psia (1883.98 psia = 1869.28 psig + 14.7 psi) and 74.43 °F, respectively. The data printout for the static gradient survey is presented as Appendix L. A tabulation of the survey results is provided as Table 6. The data are depicted graphically in Figure 9.

8.0 CONCLUSIONS

In conclusion, Republic Well No. 2-12 has mechanical integrity in accordance with 40 CFR 146.08 a (1) and in accordance with U.S. EPA Permit Number MI-168-1W-C011, and in accordance with the State of Michigan administrative rule R299.2393 (Michigan Permit Number #M-453) by demonstrating that:

- There is no significant leak in the casing, tubing or packer, as evidenced by an annulus pressure test conducted on August 25, 2025.
- The cement at the top of the injection interval has integrity and all injected fluids exited the injection tubing below the packer and moved out into the injection zone as demonstrated by the radioactive tracer log dated August 26, 2025.

With the submittal of this report, the ambient pressure monitoring and mechanical integrity testing conducted on Well 2-12 satisfies the United States Environmental Protection agency requirements which are included in the Class I UIC well permit number MI-163-1W-C0011

TABLES



TABLE 1

RADIOACTIVE TRACER SURVEY CHASE PASS SUMMARY

Chase Pass	Time Logged	Peak Slug Depth (ft KB)	Distance Traveled (ft)	Time Between Slugs (min)	Volume Between Slugs (gal)	Flow Rate (gpm)
1	13:15:16	3165.00				
2	13:18:47	3348.00	183.00	3.52	165.28	47
3	13:30:12	3988.00	640.00	13.37	588.28	47
4	13:51:17	4105.00	117.00	21.08	990.76	47
5	13:58:23	4124.00	19.00	7.10	333.70	47

**TABLE 2
GENERAL TEST INFORMATION**

PARAMETER	VALUE	SOURCE/JUSTIFICATION
Dates of test	August 28-29, 2025	
Time since reservoir pressure was last stabilized	26.89 hours (Since shut-in of Well 1-12)	Republic plant records
Shut-in time prior to test	26.89 hours	Republic plant records
Stabilized pressure and temperature prior to test	N/A	
Cumulative injection into completed interval (gallons)	#1-1276,301,156 #2-1277,526,441 <u>Total:153,827,597</u>	Republic plant records
Wellbore Radius (inches)	4.375	Figures 1 and 2
Completed Intervals (feet KB)	3,975 – 4,550	Figures 1 and 2
Type of Completion	Open-Hole	Figures 1 and 2
Depth to Fill (feet KB)	4,263	Radioactive Tracer Survey conducted 8/26/25
Interval Thickness (feet)	133	No-Migration Petition Revision, Section VI (September 2002)
Average historical waste fluid viscosity	0.80	Estimated from Waste Stream Characteristics (30K TDS)
Formation fluid viscosity (cp)	1.34	No-Migration Petition Revision, Section VI (September 2002)
Porosity	11%	No-Migration Petition Revision, Section VI (September 2002)
Total Compressibility (psi ⁻¹)	6.20 x 10 ⁻⁶	No-Migration Petition Revision, Section VI (September 2002)
Formation volume factor	1	Assumed since the dominant fluid is water
Initial formation bottom-hole pressures	1,779.5 psia @ 3,950' KB MD / 3,856' KB TVD	No-Migration Petition Revision, Section VI (September 2002)
Initial formation bottom-hole temperature	86.4 °F @ 3,950' KB MD / 3,856' KB TVD	No-Migration Petition Revision, Section VI (September 2002)

**TABLE 3
PFO INJECTION PERIOD**

PARAMETER	VALUE	SOURCE/JUSTIFICATION
Time of injection period (hours)	12.13 hours	Republic Plant Records
Type of test fluid	Plant Effluent	
Final Injection rate (gpm)	43.28	Republic Plant Records
Pumps used for test	Facility Pump	
Distance from shut-in valve to wellhead	20 feet	Measured
Injection fluid viscosity (cp)	0.95	Estimated (based on Fresh Water @ 73 °F)
Injection fluid density (gm/cc)	1.00	Measured
Method and time viscosity tested	Not measured	
Final injection pressure	2,035.78 psia	Attachment 1
Gauge temperature at shut-in	68.58 °F	Attachment 1
Gauge type	Cal-Scan	Appendix D
Gauge model	Badger Low Temp, SN 91874	Appendix D
Gauge sensitivity	Accuracy: (0.024% FS) Resolution: (0.0003% FS)	Appendix D
Gauge depth (feet KB)	3,975	Appendix B & J
Manufacturer's recommend gauge calibration frequency	Annual	Appendix D

TABLE 4
PFO FALL-OFF PERIOD

PARAMETER	VALUE
Total shut-in time	19.43 hours
Final shut-in pressure	1,873.73 psia
Final shut-in temperature	73.39 °F

TABLE 5
PFO CALCULATED TEST DATA

CALCULATED PARAMETER	VALUE
Time to Waste Front (hours)	1.92
Time of Radial Flow Regime (hours)	3.602 – 10.723
Time to End of Wellbore Storage (hours)	0.0086
Radial Flow (Horner) Time at End of Wellbore Storage	1,416
Slope of Straight-Line Portion of Radial Flow Plot (psi/cycle)	20.144
Injection Reservoir Transmissibility (md-ft/cp)	11,978
Permeability (md)	120.68
Skin Factor (dimensionless)	1.57
Pressure Loss @ 43.28 gpm Due to Skin Damage (psi)	27.4
Flow Efficiency (fraction)	0.835

**TABLE 6
SUMMARY OF PANSYSTEM FALL-OFF ANALYSIS**

SOURCE	PARAMETER	2-12 VALUE	UNITS
Log-Log and Derivative Information	Total Shut-in Time	19.43	hours
	Derivative Smoothing Factor	0.070	
	Radial Flow Period (elapsed)	3.602 – 10.723	hours
Information from Superposition Plot	Slope of Semi-Log Straight Line	20.144	psi/cycle
	Pressure at Infinite Shut-in Time	1869.68	psia
	Pressure at 1-hour from Shut-in (Extrapolation of Semi-Log Straight Line)	1892.21	psia
Semi-Log Analysis	Mobility Thickness	11,975	md-ft/cp
	Permeability Thickness	16,047	md-ft
	Permeability	120.7	md
	Formation Skin Damage	1.60	

TABLE 7

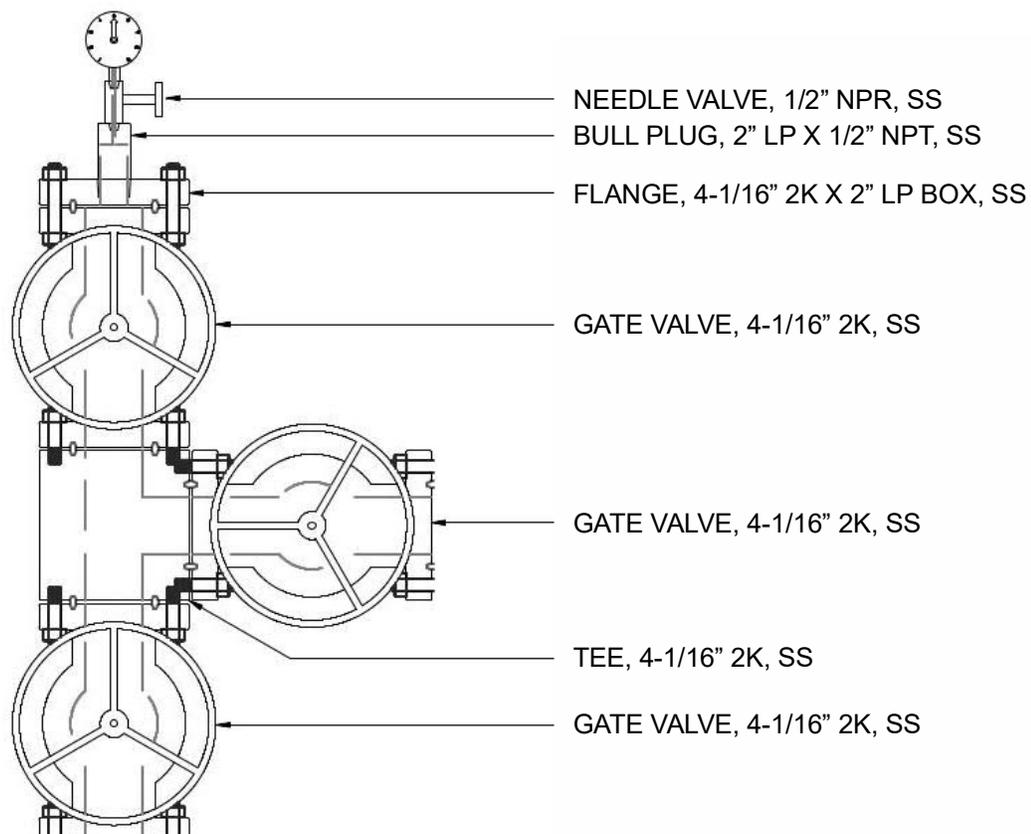
STATIC PRESSURE GRADIENT SURVEY

WELL No. 2-12

August 29, 2025

Memory Gauge Serial No. 91933			
Depth (feet)	Pressure (psig)	Pressure Gradient (psi/ft)	Temperature (°F)
0	148.98	-	65.05
1000	575.84	0.427	59.27
2000	1009.86	0.434	63.37
3000	1444.99	0.435	74.35
3975	1869.28	0.435	74.43

FIGURES



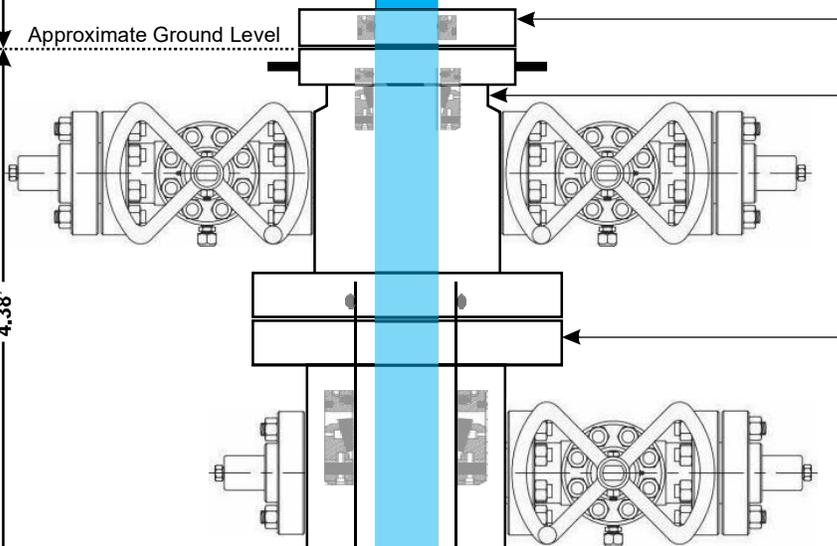
- NEEDLE VALVE, 1/2" NPR, SS
- BULL PLUG, 2" LP X 1/2" NPT, SS
- FLANGE, 4-1/16" 2K X 2" LP BOX, SS
- GATE VALVE, 4-1/16" 2K, SS
- GATE VALVE, 4-1/16" 2K, SS
- TEE, 4-1/16" 2K, SS
- GATE VALVE, 4-1/16" 2K, SS
- FLANGE, 4-1/16" 2K X 4-1/2" HASTELLOY C276, SOCKET WELD
- 4-1/2" HASTELLOY C-276 LANDING JOINT, 6.5' LONG, WITH 2.46' EXTENDING ABOVE TOP OF TUBING SPOOL (4.38' BELOW GROUND LEVEL).

11.5' KB
(or ~2' above ground level)

2.46'

Approximate Ground Level

4.38'



- PACKOFF FLANGE, 7-1/16" 3M STD x 4-1/2" THROUGH BORE, W/2 - 4-1/2" FS SEALS
- TUBING SPOOL, 11" 3M x 7-1/16" 3M W/2 - 2-1/16" 5M STUDDED OUTLETS W/GATE VALVES, 2-1/16" 5M & COMPANION FLANGES, 2-1/16" 5M x 2" LP, PE SEAL 9" x 7" W/SNAP WIRE
- CASING HEAD, 9-5/8" SOW X 11" 3M, W/C-22 HANGER FOR 7" CASING, W/2 - 2-1/16" STUDDED OUTLETS W/1 GATE VALVE, 2-1/16" 5M & 2 COMPANION FLANGES, 2-1/16" 5M x 2" LP

- 9-5/8" INTERMEDIATE CASING
- 7" PROTECTION CASING
- 4-1/2" BLUE BOX 2000 TUBING

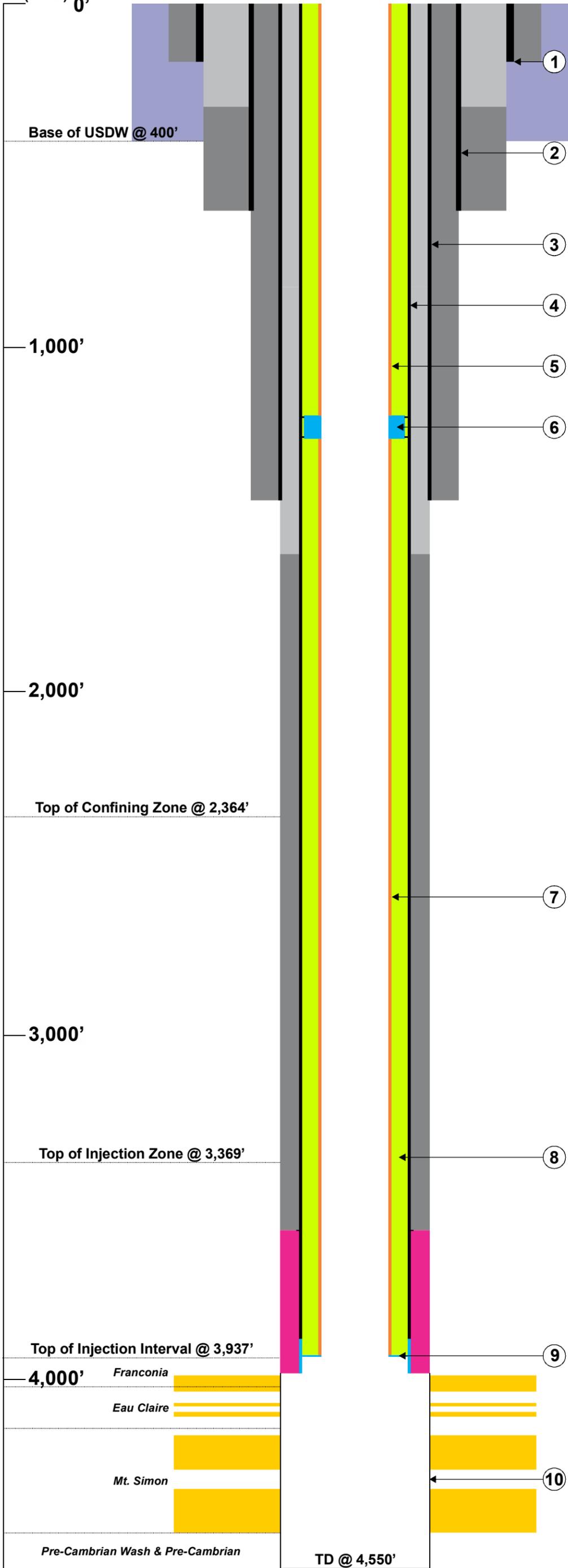
FIGURE

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC
ROMULUS, MICHIGAN

WELL #2-12 WELLHEAD SCHEMATIC AFTER PHASE II WORKOVER

DATE	09/26/25	CHECKED BY	JOB NO. 192128
DRAWN BY	DJS	APPROVED BY	DWG NO.

Depth Scale
(ft KB)



BELOW GROUND DETAILS

1. **Conductor Casing:** 16", 60 lb/ft set in a 20" borehole at 169'. Cemented with 300 sacks of Class A cement containing 3% CaCl₂ with 75% returns.
2. **Surface Casing:** 13-3/8", 48 lb/ft, H-40, ST&C set in a 17-1/2" borehole at 602'. Cemented with 350 sacks of 65/35 Pozalin with 3% CaCl₂ followed by 200 sacks of Class A tail cement with 3% CaCl₂. Top-out with 50 sacks of Class A cement with 3% CaCl₂.
3. **Intermediate Casing:** 9-5/8", 36 lb/ft set in a 12-1/4" borehole at 1,444'. Cemented with 725 sacks of Class A with 3% CaCl₂. 33 bbl of cement circulated to the surface.
4. **Protection Casing:** 7", 26 lb/ft, K-55, LT&C set in an 8-3/4" borehole to 3,882' and 7", 1/4" wall, Hastelloy C-276, STL set in 8-3/4" borehole from 3,882' to 3,979.4' with 7" float collar and float shoe set from 3,979.4' to 3,982'. Top 10' of Hastelloy coated with Teflon for galvanic corrosion inhibition. Cement diverter tool set in 7" casing from 3,565.5' to 3,568'.
 Stage I (3,568' to 3,982'): 686 gallons (16.3 bbl) of 12.5 lb/gal EPSEAL epoxy cement.
 Stage II (Surface to 3,568'): 310 sacks of 50/50 of Poz followed by 340 sacks of 50/50 Poz with microbond followed by 450 sacks of Standard cement with microbond. 44 bbl circulated to surface.
5. **Upper Injection Tubing:** 4-1/2", Blue Box 2000, fiberglass tubing to top of straddle packer at 1,199':
 a) 6', 4-1/2" Hastelloy C-276 landing joint top positioned ~2' above ground level with 1' of stretch. (Landing Joint base = 15.38' KB);
 b) 2 Pup Joints (5.71' + 9.73'), 4-1/2", Blue Box FRP from 15' to 31';
 c) 4-1/2", Blue Box FRP tubing (40 joints) from 31' to 1,199';
 d) Anchor Seal Assembly, 4.75" x 3.75", Hastelloy C-276, 1.64' long set in Model 12 Injection Packer PBR from 1,199' to 1,200.5'.
6. **Straddle Packer:** Model 12, Hastelloy C-276 wetted parts set from 1,199' to 1,268'. Upper Element at 1,204' and Lower Element at 1,265'.
7. **Lower Injection Tubing:** 4-1/2", Blue Box 2000, fiberglass tubing set from 1,268' to 3,930' with 2' of stretch as follows:
 a) 4-1/2", Blue Box FRP tubing (91 joints) from 1,268' to 3,930'.
 b) Anchor Seal Assembly, 4.75" x 3.75", Hastelloy C-276, 1.64' long set in Model 12 Injection Packer PBR from 3,930.0' to 3,931.5'.
8. **Annulus Fluid:** 66 bbl (2,772 gallons) of 9.7 lb/gal brine water containing a corrosion inhibitor, a bactericide and an oxygen scavenger.
9. **Injection Packer:** Model 12, Hastelloy C-276 wetted parts set from 3,930' to 3,935'.
10. **Open Hole Completion:** 8-3/4" borehole from 3,975' to 4,550'.

LEGEND

- USDW
- Receptive Interval
- Fiberglass
- Carbon Steel
- Standard Cement
- Lightweight Cement
- Annulus Fluid
- Hastelloy C-276
- Epoxy Cement

Vertical Scale: 1" = 300'

		WSP USA INC. 8212 Kelwood Ave. Baton Rouge LA 70806 Tel: (225) 753-2561 Fax: (225) 925-2530
FIGURE 2		
REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC		
ROMULUS, MICHIGAN		
WELL #2-12 BELOW GROUND DETAILS AFTER PHASE II WORKOVER		
DATE 10/08/20	CHECKED BY	JOB NO. 192128B
DRAWN BY SLK	APPROVED BY	DWG NO.

Annulus Pressure Test

Well 2-12

August 25, 2025

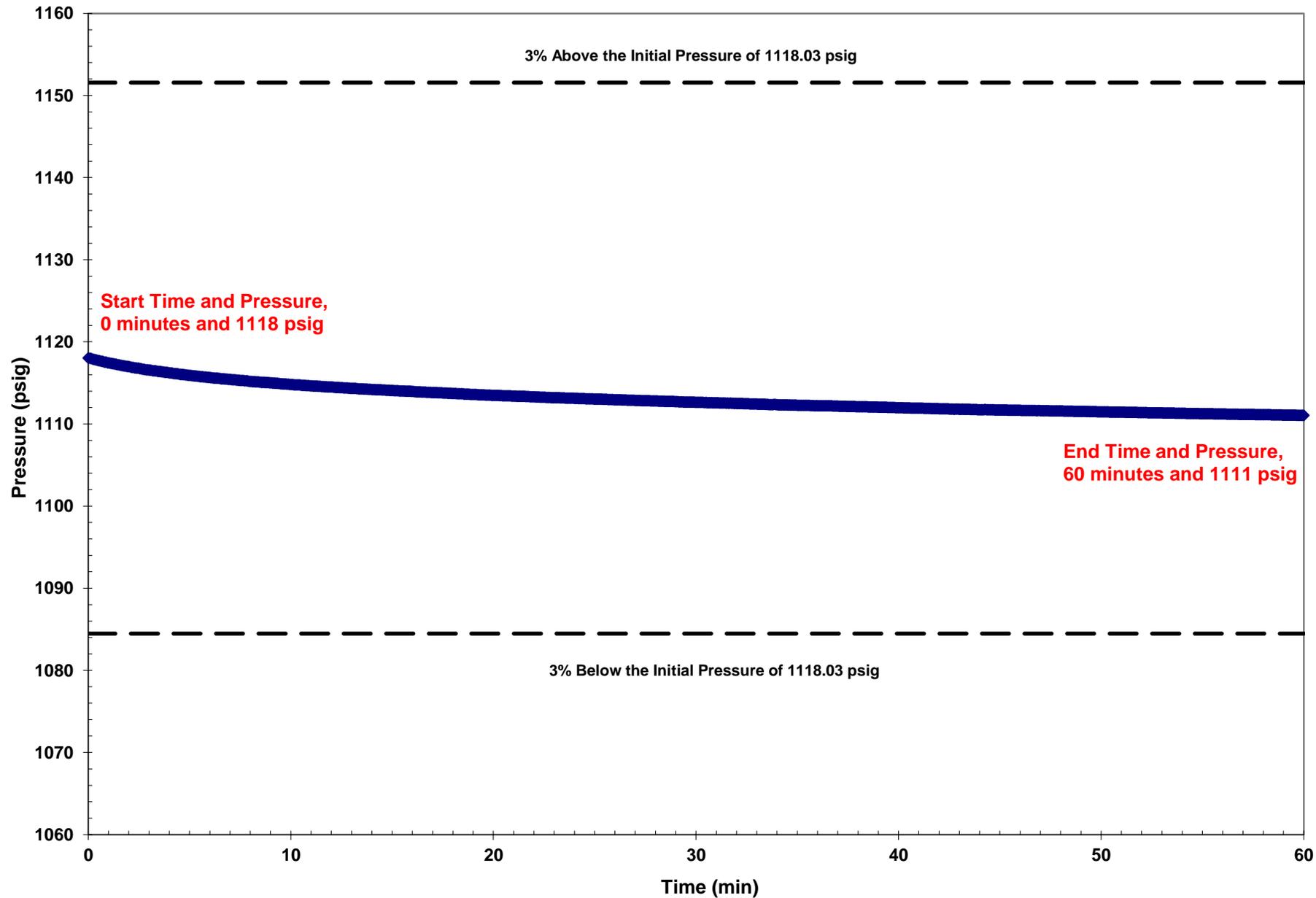


FIGURE 3

Figure 4: Well 2-12 2025 PFO Test Overview Plot

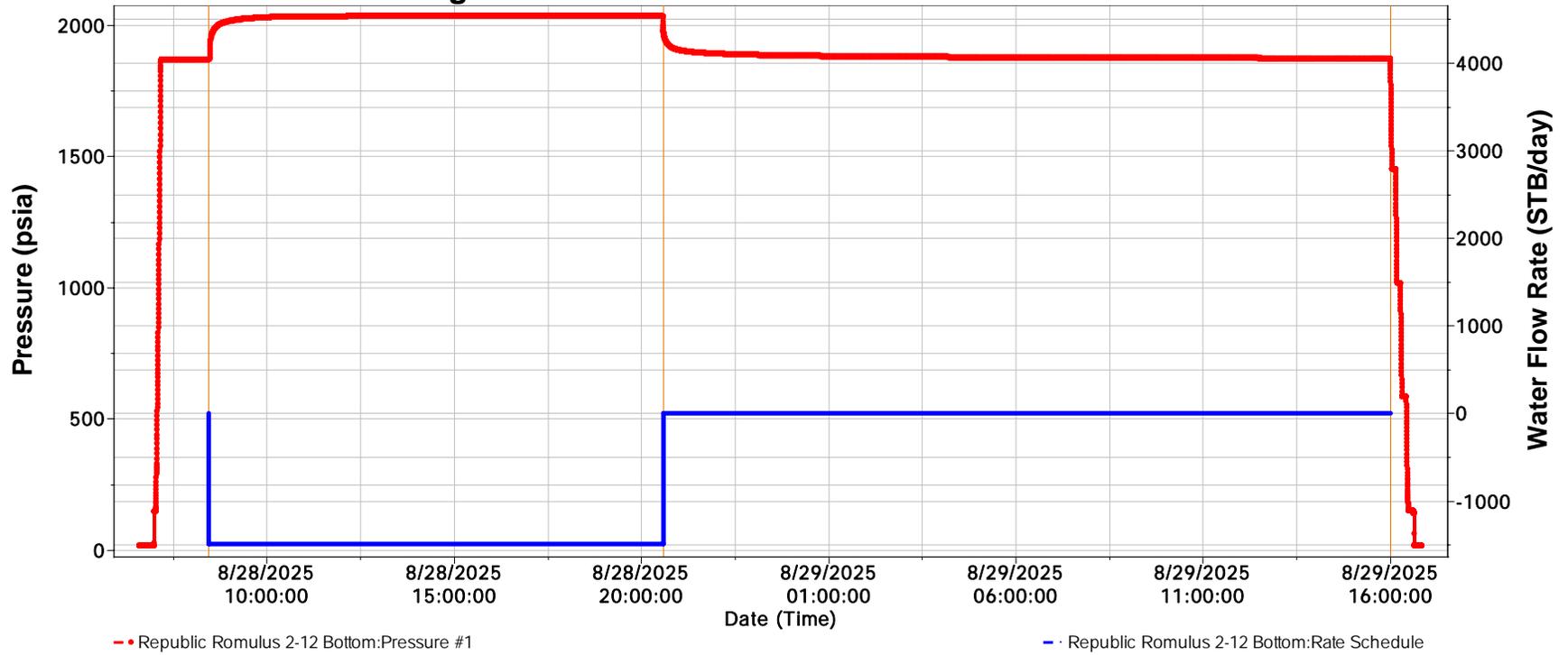


Figure 5: Well 2-12 2025 PFO Cartesian Plot

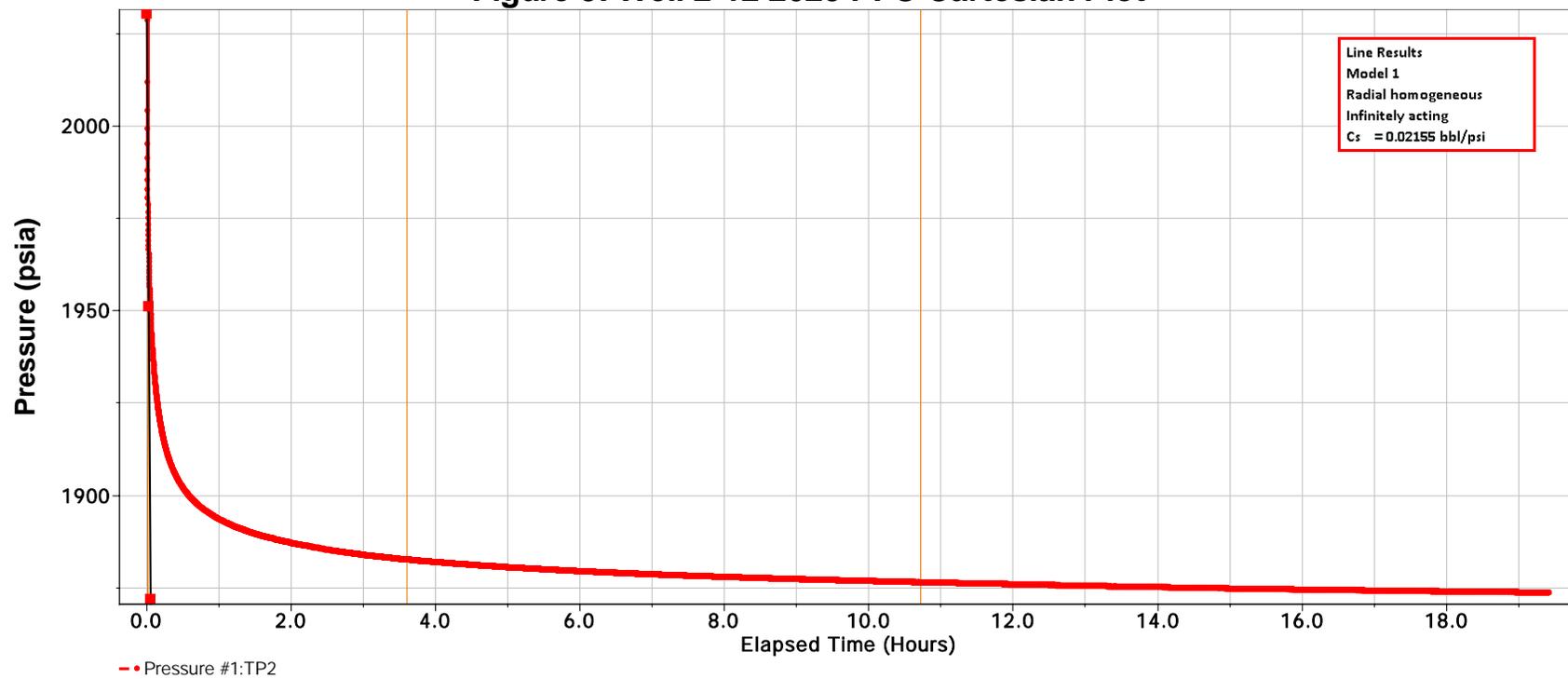


Figure 6: Well 2-12 2025 PFO Log-Log Plot

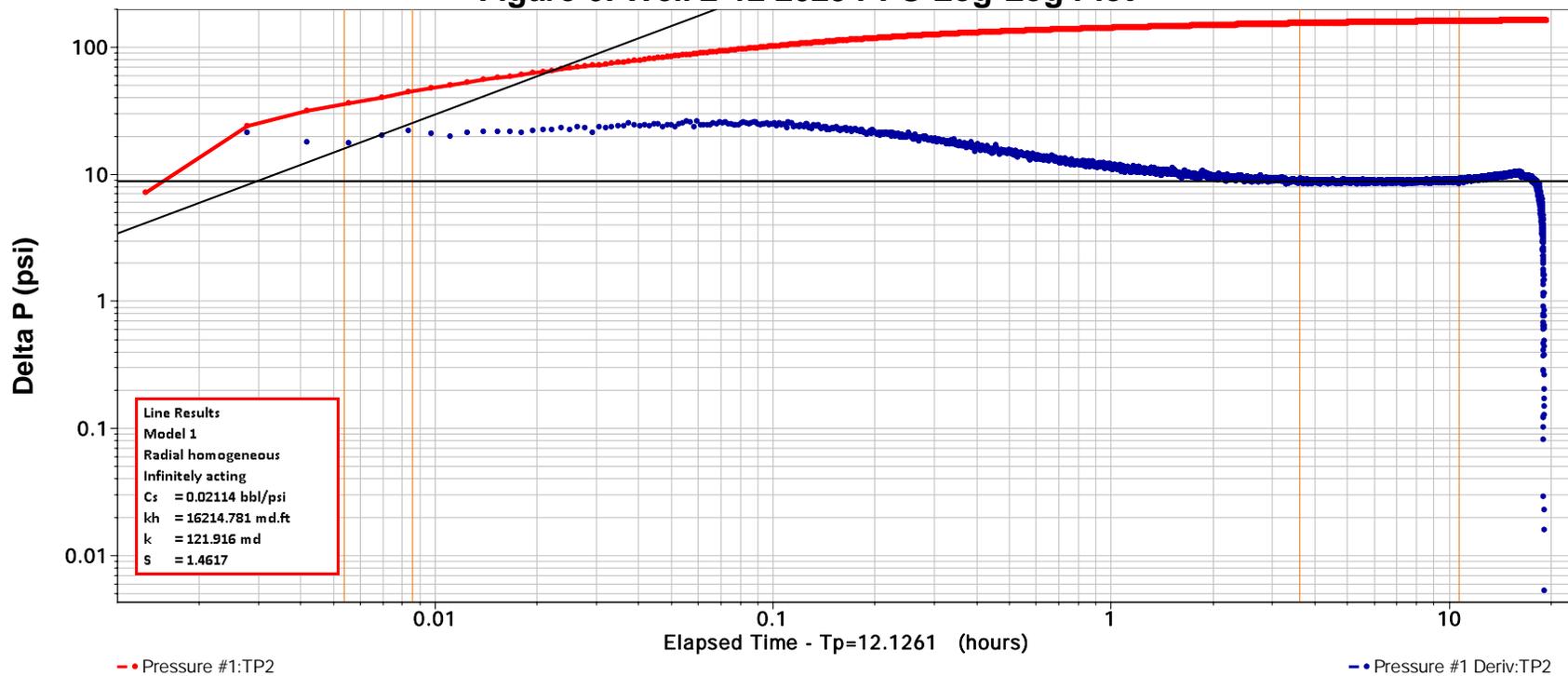


Figure 7: Well 2-12 2025 PFO Radial Flow Plot

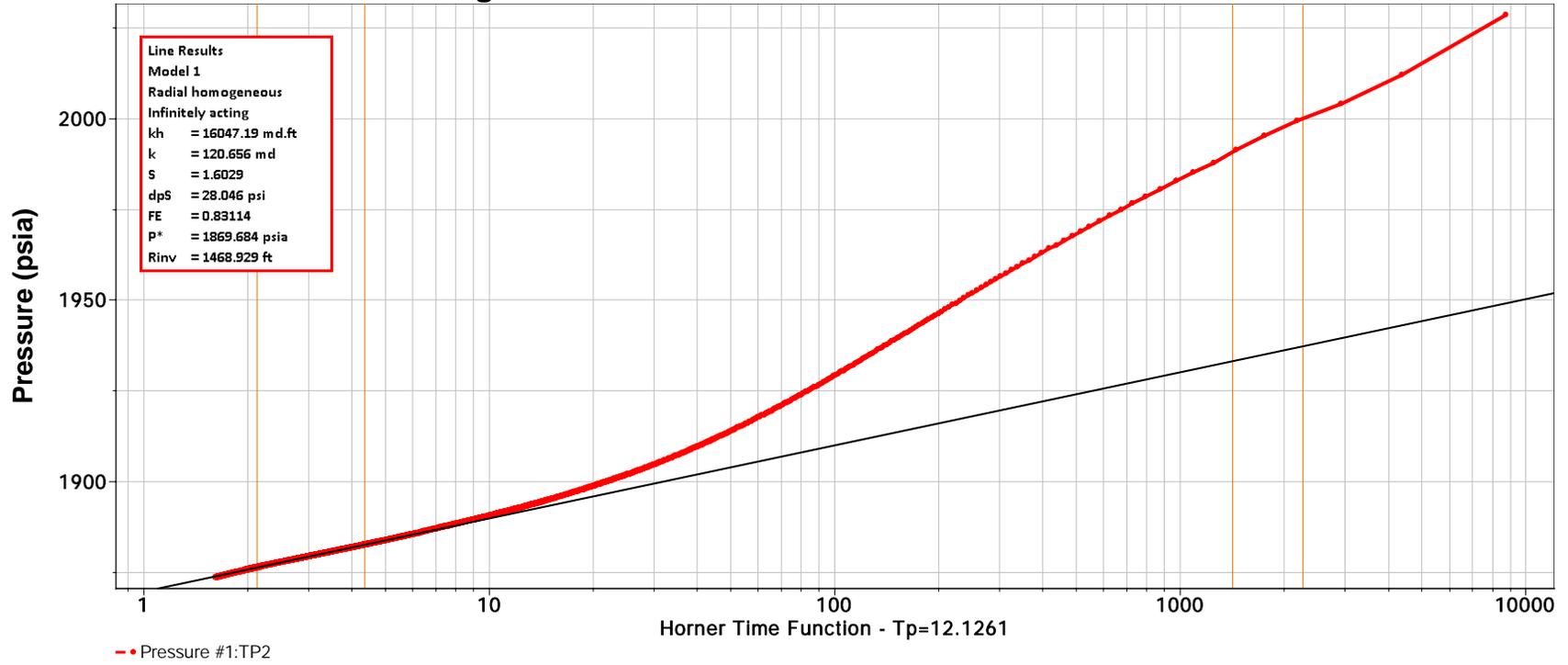
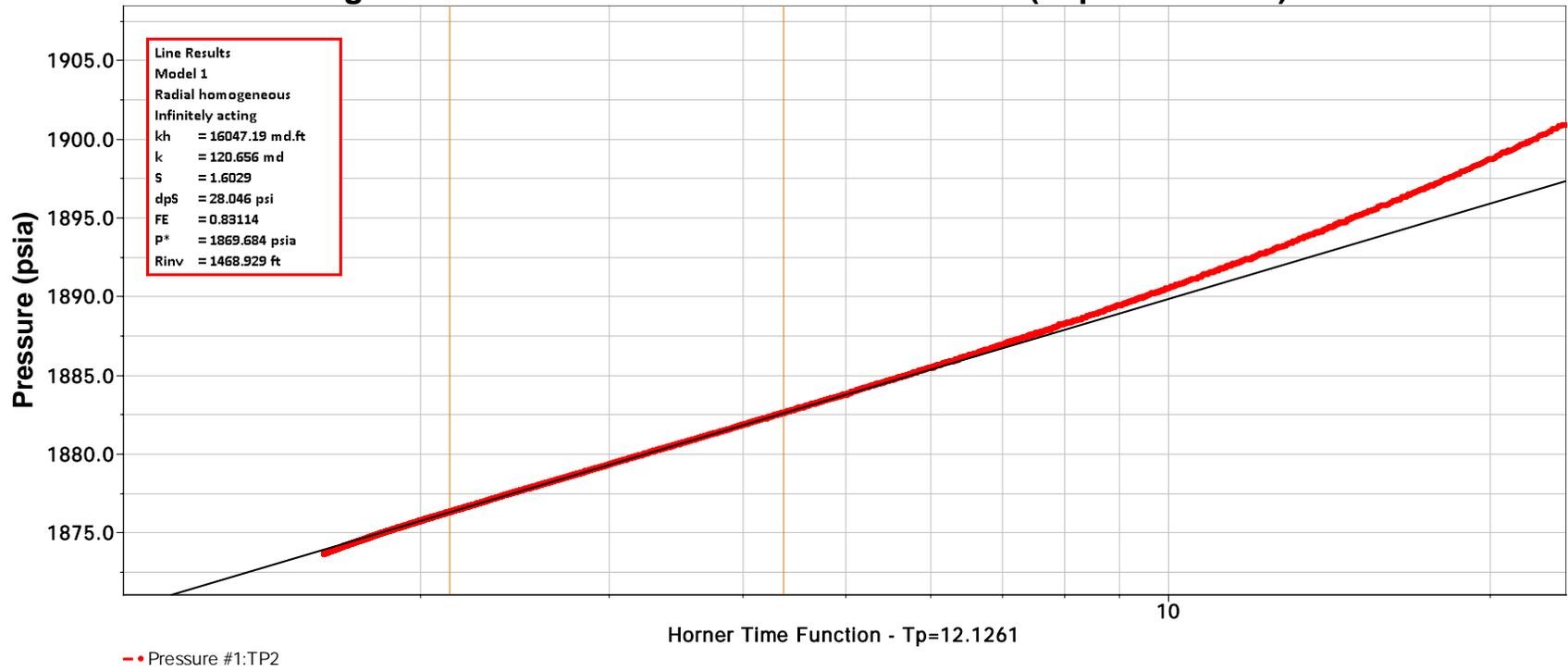


Figure 8: Well 2-12 2025 PFO Radial Flow Plot (Expanded View)



STATIC PRESSURE GRADIENT SURVEY
WELL No. 2-12
August 8, 2024

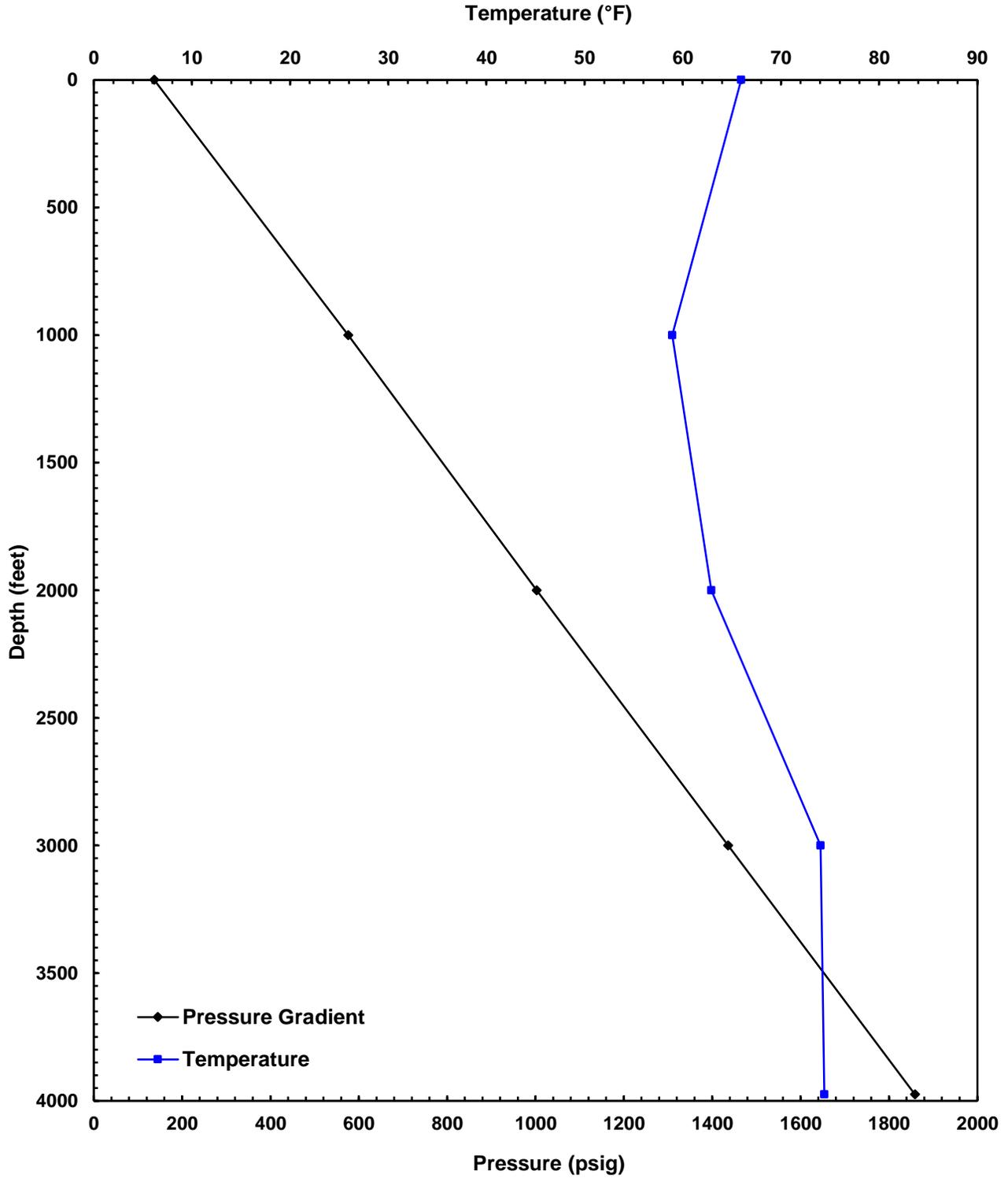


FIGURE 9

APPENDICES



APPENDIX A
REGULATORY CORRESPONDENCE





RE: Republic Services - Romulus Wells IW 1-12 and IW 2-12 Annual MIT and PFO Procedures

From Fisher, Marc <Fisher.Marc@epa.gov>
Date Wed 7/16/2025 3:21 PM
To Stanberry, Dennis <Dennis.Stanberry@wsp.com>
Cc Quinlan, Kaelyn <Quinlan.Kaelyn@epa.gov>

Hi Dennis, your extension request is approved. Please submit your MIT results to R5UICWellTesting@epa.gov. Let me know if you have any questions.

Marc Fisher, Senior Geologist
EPA Region 5, Water Division, Permits Branch, UIC Section
77 West Jackson Boulevard, WP-16J
Chicago, Illinois 60604
(312) 886-4240

From: Stanberry, Dennis <Dennis.Stanberry@wsp.com>
Sent: Wednesday, July 16, 2025 11:20 AM
To: R5UICWellTesting <R5UICWellTesting@epa.gov>
Cc: Steppe, Ray <Ray.Steppe@wsp.com>; Leary, Jack <Jack.Leary@wsp.com>; Enriquez, Philippe Eugene <PhilippeEugene.Enriquez@wsp.com>; Cutura, Christopher <Christopher.Cutura@wsp.com>; Kelly, Stephen L. <steve.kelly@wsp.com>; Rodriquez, Tom <trodriquez@republicservices.com>; Odrowski, Brendan <BOdrowski@republicservices.com>; Obermeyer, Justin <jobermeyer@republicservices.com>; McBride, Andrew <amcbride2@republicservices.com>; Mackinnon, James <jmackinnon@republicservices.com>; Revels, Kristina <krevels@republicservices.com>; Scott, Sylwia <sscott@republicservices.com>; ALDERMAN, MICHAEL <malderman@republicservices.com>; Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Chase, Felicia <chase.felicia@epa.gov>; Fisher, Marc <Fisher.Marc@epa.gov>; EGLE-GeoWebFace <egle-geowebface@michigan.gov>; Fisher, Marc <Fisher.Marc@epa.gov>; Banks, Claudia <Banks.Claudia@epa.gov>
Subject: RE: Republic Services - Romulus Wells IW 1-12 and IW 2-12 Annual MIT and PFO Procedures

Some people who received this message don't often get email from dennis.stanberry@wsp.com. [Learn why this is important](#)

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Good Morning,

On behalf of Republic Services, WSP would like to request a 30 day extension to perform the MITs on Well No. 1-12 (MI-163-1W-C010) and Well No. 2-12 (MI-163-1W-C011).

The MIT(s) are due to be completed by 8/9/2025.

Due to unforeseen circumstances with one of the wells, a wellhead flange repair will need to be made prior to any testing being conducted on the well. The EPA has been notified separately on June 30 by Republic Services in regards to this wellhead alteration. The planned wellhead flange repair is tentatively

scheduled at the beginning of August, forcing us to delay the planned MIT(s) until the repair has been completed.

We would like to request a 30 day extension for both wells so the MITs can be conducted at the same time following the flange repair.

Once the flange is repaired WSP/Republic would notify the EPA/EGLE of the new planned test date to be completed in August.

Please reach out with any questions in regards to this extension request.

Regards,

Dennis Stanberry

MIT Manager/WO Engineer
Petroleum Engineer

T +1 713-229-7407
M +1 406-560-6813



From: R5UICWellTesting <R5UICWellTesting@epa.gov>
Sent: Wednesday, July 9, 2025 9:46 AM
To: Stanberry, Dennis <Dennis.Stanberry@wsp.com>
Cc: Steppe, Ray <Ray.Steppe@wsp.com>; Leary, Jack <Jack.Leary@wsp.com>; Enriquez, Philippe Eugene <PhilippeEugene.Enriquez@wsp.com>; Cutura, Christopher <Christopher.Cutura@wsp.com>; Kelly, Steve <STEVE.KELLY@wsp.com>; Rodriguez, Tom <trodriguez@republicservices.com>; Odrowski, Brendan <BOdrowski@republicservices.com>; Obermeyer, Justin <jobermeyer@republicservices.com>; McBride, Andrew <amcbride2@republicservices.com>; Mackinnon, James <jmackinnon@republicservices.com>; Revels, Kristina <krevels@republicservices.com>; Scott, Sylwia <sscott@republicservices.com>; ALDERMAN, MICHAEL <malderman@republicservices.com>; Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Chase, Felicia <chase.felicia@epa.gov>; Fisher, Marc <Fisher.Marc@epa.gov>; EGLE-GeoWebFace <egle-geowebface@michigan.gov>; Fisher, Marc <Fisher.Marc@epa.gov>
Subject: RE: Republic Services - Romulus Wells IW 1-12 and IW 2-12 Annual MIT and PFO Procedures

Hello Dennis,

EPA has reviewed the procedures you proposed on June 26, 2025 for Well No. 1-12 (MI-163-1W-C010) and Well No. 2-12 (MI-163-1W-C011). Your proposed procedures are hereby approved unless you receive additional email correspondence in the next three business days from Andrew Greenhagen approving the procedures with conditions or disapproving the procedures.

A blank test information sheet is attached to this email – please complete and return it when you submit your report. Please note all the items listed under “Remember” at the bottom of the information sheet. These items will help ensure that all the information we require for interpretation of the test will be included in your submission. Please remember to submit the digital data by email when you submit your

report. If a test does not provide definitive information concerning the conditions which it is designed to ascertain, or approved procedures are not followed, you will be required to rerun the test.

It is our practice that testing be witnessed by our contract field inspector to the extent possible. If you have not already done so, please contact Claudia Banks at banks.claudia@epa.gov to schedule the witnessing of this test. Unwitnessed tests are only acceptable if it is impossible for the field inspector to be present.

If you have any questions or if you find during the test that you are unable to follow the approved procedures, please contact Kaelyn Quinlan at (312) 886-7188 or quinlan.kaelyn@epa.gov or R5UICWellTesting@epa.gov.

Please note: We have established an additional email address of R5UICWellTesting@epa.gov. You may now send all correspondence relating to well test witness scheduling, procedure approvals, and electronic report/data submissions to this inbox. At this time, EPA still requires a copy of the test report via paper with appropriate signature for the permanent file.

R5UICWellTesting@epa.gov

Water Division, Permits Branch, UIC Section
U.S. Environmental Protection Agency - Region 5
77 West Jackson Boulevard, WP-16J
Chicago, Illinois 60604

From: Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>

Sent: Thursday, June 26, 2025 4:16 PM

To: R5UICWellTesting <R5UICWellTesting@epa.gov>

Subject: FW: Republic Services - Romulus Wells IW 1-12 and IW 2-12 Annual MIT and PFO Procedures

Andrew Greenhagen
Underground Injection Control Supervisor
U.S. Environmental Protection Agency - Region 5
(312) 353-7648

From: Stanberry, Dennis <Dennis.Stanberry@wsp.com>

Sent: Thursday, June 26, 2025 4:15 PM

To: Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Chase, Felicia <chase.felicia@epa.gov>; Fisher, Marc <Fisher.Marc@epa.gov>; EGLE-OGMD-UIC@Michigan.gov

Cc: Steppe, Ray <Ray.Steppe@wsp.com>; Leary, Jack <Jack.Leary@wsp.com>; Enriquez, Philippe Eugene <PhilippeEugene.Enriquez@wsp.com>; Cutura, Christopher <Christopher.Cutura@wsp.com>; Kelly, Stephen L. <steve.kelly@wsp.com>; Rodriquez, Tom <trodriguez@republicservices.com>; Odrowski, Brendan <BOdrowski@republicservices.com>; Obermeyer, Justin <jobermeyer@republicservices.com>; McBride, Andrew <amcbride2@republicservices.com>; Mackinnon, James <jmackinnon@republicservices.com>; Revels, Kristina <krevels@republicservices.com>; Scott, Sylwia <sscott@republicservices.com>; ALDERMAN, MICHAEL <malderman@republicservices.com>

Subject: Republic Services - Romulus Wells IW 1-12 and IW 2-12 Annual MIT and PFO Procedures

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Good evening Mr. Greenhagen,

On behalf of Republic Services, WSP is pleased to submit the procedure(s) for the Annual MIT, Alarm testing, and Ambient Monitoring(PFO) on Republic's Wells IW 1-12 (API# 21-163-M452) and IW 2-12 (API# 21-163-M453) located near Romulus, MI for approval.

The testing is planned for the week of July 28th 2025 – August 1st 2025. Please reach out if you plan to witness the testing to ensure proper communication and arrangements.

Please reach out if you have any questions or concerns regarding the procedure.

Regards,

Dennis Stanberry

MIT Manager/WO Engineer
Petroleum Engineer

T +1 713-229-7407
M +1 406-560-6813

WSP

9655 Katy Freeway, Suite 200
Houston, TX

wsp.com



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APPENDIX B
CHRONOLOGY OF FIELD ACTIVITIES





9655 Katy Fwy., Suite 200
Houston, Texas 77024
(281) 589-5900

FIELD ACTIVITY REPORT

Company:	Republic Services	Project No:	192128UESS.7160
Well:	EDS 1-12 & EDS 2-12	Date:	8/25/2025
City:	Romulus, MI	FAR Report No.:	1
County/Parrish:	Wayne	WSP Rep.:	Gabriel Holmes
State:	MI		
Work Performed:	<input type="checkbox"/> New Well <input type="checkbox"/> Workover <input checked="" type="checkbox"/> Wireline Consulting <input type="checkbox"/> Other		

Breakdown of Operations

From	To	Hrs	*All Times in EST
6:30	7:00	0.50	Traveled from hotel. Arrived on site
7:00	8:30	1.50	Rig up wireline unit and annulus pressure recorder on EDS 2-12
8:30	9:00	0.50	Initiate Temp log on EDS 2-12, annulus pressure pump on 2-12 not working so installed annulus pressure equipment on EDS 1-12.
9:00	9:15	0.25	Perform Annulus Pressure Test on EDS 1-12
9:10			Start APT 1127.6 psi on the annulus and 2.27 psi on the tubing, 0 flow
10:10			End APT 1123.3 psi on the tubing and 2.27 psi on the tubing, 0 flow, 0.4% change over 1 hour
9:15	11:15	2.00	Continue Running Temp Log on EDS 2-12, Repair annulus pump on 2-12
11:15	12:45	1.50	Finished Temp log move over and rig up on EDS 1-12
12:45	14:15	1.50	Intiate Temp log on EDS 1-12, continue repair on annulus pump
14:15	15:45	0.50	Annulus pump repaired, Perform Annulus Pressure Test on EDS 2-12
14:31			Start APT on EDS 2-12, 1132.1 psi, 1.9 psi,
15:31			End APT on EDS 2-12, 1125.7 psi annulus, 2.55 psi tubing, 0 flow, 0.6% change over 1 hour
15:45	16:00	0.25	Finish Temp log on EDS 1-12
16:00	17:00	1.00	Rig down wireline unit, switch to Radioactive Tracer tools, secure location
17:00	17:30	1.50	Left location, Traveled to hotel
Total		11.00	

Safety Topics

Working at Republic Romulus unit, spotters, wearing appropriate PPE, Heat Stress, Pinch Points



9655 Katy Fwy., Suite 200
Houston, Texas 77024
(281) 589-5900

FIELD ACTIVITY REPORT

Company:	Republic Services	Project No:	192128UESS.7160
Well:	EDS 1-12 & EDS 2-12	Date:	8/26/2025
City:	Romulus, MI	FAR Report No.:	2
County/Parrish:	Wayne	WSP PB Rep.:	Gabriel Holmes
State:	MI		
Work Performed:	<input type="checkbox"/> New Well <input type="checkbox"/> Workover <input checked="" type="checkbox"/> Wireline Consulting <input type="checkbox"/> Other		

Breakdown of Operations

From	To	Hrs	*All Times in EST
6:30	7:00	0.50	Traveled from hotel. Arrive on location, have safety meeting
7:00	7:45	0.75	Rig up wireline unit on EDS 1-12
7:45	11:00	3.25	Perform Radioactive Tracer Survey on EDS 1-12
7:50	8:17		Run Pre Base Log (4455' -3000'), 0 gpm, 50 psi on tubing
8:24	8:29		Stat Check at 3802'
8:31	8:36		Stat Check at 3955'
			Run Chase Down Survey
8:57			Eject 4 second slug at 3100', 42 gpm, 280 psi on tubing
8:58	9:00		Pass 1 3156'
9:02	9:06		Pass 2 3322'
9:12	9:28		Pass 3 4091'
9:36	9:42		Pass 4 Dissipating
9:50	10:21		Run 30 minute Time Drive, 4 sec slug, 42 gpm, 226 psi on tubing
10:26	10:52		Post Base Log (4455' - 3000')
11:00	12:15	1.25	Rig down wireline unit on EDS 1-12 and move to EDS 2-12
12:15	15:15	3.00	Perform Radioactive Tracer Survey EDS 2-12, Rig up slick line unit on EDS 1-12
12:21	12:44		Run Pre Base Log (4263' -2990'), 0 gpm, 48.0 psi on tubing
12:51	12:56		Stat Check at 3800'
12:57	13:02		Stat Check at 3855'
			Run Chase Down Survey
13:13			Eject 4 second slug at 3100', 47 gpm, 315 psi on tubing
13:14	13:16		Pass 1 3165'
13:18	13:22		Pass 2 6129'
13:29	13:43		Pass 3 3988'
13:49	13:54		Pass 4 4105'
13:57	14:02		Pass 5 Dissipating
14:08	14:39		Run 30 minute Time Drive, 4 sec slug, 47 gpm, 315 psi on tubing
14:43	15:06		Run Post Base Log (4263' - 3000'), 0 gpm, 155 psi on tubing
15:15	16:00	0.75	Rig down wireline unit, position slickline memory tool at 4080'
16:00	17:00	1.00	Pressure tool at 4080' wait 1 hour
17:00	17:15	0.25	Initiate injection starting Pressure Buildup portion of the Reservoir Pressure Monitoring on EDS 1-12
17:15	17:30	0.25	Secure location
17:30	18:00	0.50	Leave location travel to hotel
Total		11.50	

Safety Topics

Working at Republic Romulus unit, spotters, wearing appropriate PPE, Heat Stress, Pinch Points



9655 Katy Fwy., Suite 200
Houston, Texas 77024
(281) 589-5900

FIELD ACTIVITY REPORT

Company:	Republic Services	Project No:	192128UESS.7160
Well:	EDS 1-12 & EDS 2-12	Date:	8/27/2025
City:	Romulus, MI	FAR Report No.:	3
County/Parrish:	Wayne	WSP Rep.:	Gabriel Holmes
State:	MI		
Work Performed:	<input type="checkbox"/> New Well <input type="checkbox"/> Workover <input checked="" type="checkbox"/> Wireline Consulting <input type="checkbox"/> Other		

Breakdown of Operations

From	To	Hrs	*All Times in EST
5:00	5:30	0.50	Traveled from hotel. Arrived on site
5:30	5:45	0.25	Shut-in EDS 1-12 at 5:30 am starting Falloff portion of the Reservoir Pressure Monitoring
5:45	6:15	0.50	Secure location
6:15	6:45	0.50	Left location, Traveled to hotel
Total		1.75	

Safety Topics

Working at Republic Romulus unit, spotters, wearing appropriate PPE, Heat Stress, Pinch Points



9655 Katy Fwy., Suite 200
Houston, Texas 77024
(281) 589-5900

FIELD ACTIVITY REPORT

Company:	Republic Services	Project No:	192128UESS.7160
Well:	EDS 1-12 & EDS 2-12	Date:	8/28/2025
City:	Romulus, MI	FAR Report No.:	4
County/Parrish:	Wayne	WSP Rep.:	Gabriel Holmes
State:	MI		
Work Performed:	<input type="checkbox"/> New Well <input type="checkbox"/> Workover <input checked="" type="checkbox"/> Wireline <input type="checkbox"/> Consulting <input type="checkbox"/> Other		

Breakdown of Operations

From	To	Hrs	*All Times in EST
4:30	5:00	0.50	Traveled from hotel. Arrived on site
5:00	6:00	1.00	Pull tool ending Reservoir Pressure Monitoring, Start Downhole Gradient Survey
5:12	5:17		5 minute stop at 4000'
5:21	5:26		5 minute stop at 3000'
5:29	5:34		5 minute stop at 2000'
5:38	5:43		5 minute stop at 1000'
5:50	5:55		5 minute stop at 0'
6:00	6:30	0.50	Rig down slickline unit from EDS 1-12 and move to EDS 2-12
6:30	7:00	0.50	Rig up wireline unit on EDS 2-12
7:00	7:30	0.50	Position tool at 3975'
7:30	8:15	0.75	Tool at 3975' wait 45 minutes
8:15	8:30	0.25	Initiate injection on EDS 2-12 starting Pressure Buildup portion of the Reservoir Pressure Monitoring on EDS 2-12
8:30	20:30	12.00	Standby
20:30	20:45	0.25	Shut-in EDS 2-12 at 8:35 pm starting Falloff portion of the Reservoir Pressure Monitoring
20:45	21:00	0.25	Secure location
21:00	21:30	0.50	Left location, Traveled to hotel
Total		17.00	

Safety Topics

Working at Republic Romulus unit, spotters, wearing appropriate PPE, Heat Stress, Pinch Points



9655 Katy Fwy., Suite 200
Houston, Texas 77024
(281) 589-5900

FIELD ACTIVITY REPORT

Company:	Republic Services	Project No:	192128UESS.7160
Well:	EDS 1-12 & EDS 2-12	Date:	8/29/2025
City:	Romulus, MI	FAR Report No.:	5
County/Parrish:	Wayne	WSP Rep.:	Gabriel Holmes
State:	MI		
Work Performed:	<input type="checkbox"/> New Well <input type="checkbox"/> Workover <input checked="" type="checkbox"/> Wireline <input type="checkbox"/> Consulting <input type="checkbox"/> Other		

Breakdown of Operations

From	To	Hrs	*All Times in EST
15:30	16:00	0.50	Traveled from hotel. Arrived on site
16:00	16:45	1.00	Pull tool ending Reservoir Pressure Monitoring, Start Downhole Gradient Survey on EDS 2-12
16:04	16:09		5 minute stop at 3000'
16:12	16:17		5 minute stop at 2000'
16:20	16:25		5 minute stop at 1000'
16:30	16:35		5 minute stop at surface
16:45	17:15	0.50	Rig down slickline unit from EDS 1-12 and move to EDS 2-12
17:15	17:45	0.25	Hand over wells to Republic Romulus, Secure location
17:45	18:15	0.50	Left location, Traveled to hotel
Total		2.75	

Safety Topics

Working at Republic Romulus unit, spotters, wearing appropriate PPE, Heat Stress, Pinch Points

APPENDIX C
ANNULUS PRESSURE TEST DATA



APPENDIX C
WELL 2-12 ANNULUS PRESSURE DATA
August 25, 2025

Time (CST)	Time (min)	Pressure (psig)	
13:31:00	0.00	1118.03	START
13:31:30	0.50	1117.73	
13:32:00	1.00	1117.44	
13:32:30	1.50	1117.22	
13:33:00	2.00	1116.97	
13:33:30	2.50	1116.79	
13:34:00	3.00	1116.56	
13:34:30	3.50	1116.39	
13:35:00	4.00	1116.22	
13:35:30	4.50	1116.04	
13:36:00	5.00	1115.92	
13:36:30	5.50	1115.79	
13:37:00	6.00	1115.65	
13:37:30	6.50	1115.54	
13:38:00	7.00	1115.42	
13:38:30	7.50	1115.30	
13:39:00	8.00	1115.17	
13:39:30	8.50	1115.08	
13:40:00	9.00	1115.01	
13:40:30	9.50	1114.90	
13:41:00	10.00	1114.81	
13:41:30	10.50	1114.72	
13:42:00	11.00	1114.64	
13:42:30	11.50	1114.55	
13:43:00	12.00	1114.49	
13:43:30	12.50	1114.41	
13:44:00	13.00	1114.34	
13:44:30	13.50	1114.27	
13:45:00	14.00	1114.20	
13:45:30	14.50	1114.14	
13:46:00	15.00	1114.07	
13:46:30	15.50	1114.02	

Time (CST)	Time (min)	Pressure (psig)	
13:47:00	16.00	1113.96	
13:47:30	16.50	1113.89	
13:48:00	17.00	1113.83	
13:48:30	17.50	1113.78	
13:49:00	18.00	1113.71	
13:49:30	18.50	1113.67	
13:50:00	19.00	1113.59	
13:50:30	19.50	1113.53	
13:51:00	20.00	1113.49	
13:51:30	20.50	1113.44	
13:52:00	21.00	1113.40	
13:52:30	21.50	1113.35	
13:53:00	22.00	1113.30	
13:53:30	22.50	1113.25	
13:54:00	23.00	1113.20	
13:54:30	23.50	1113.16	
13:55:00	24.00	1113.11	
13:55:30	24.50	1113.07	
13:56:00	25.00	1113.03	
13:56:30	25.50	1113.00	
13:57:00	26.00	1112.96	
13:57:30	26.50	1112.93	
13:58:00	27.00	1112.87	
13:58:30	27.50	1112.83	
13:59:00	28.00	1112.80	
13:59:30	28.50	1112.76	
14:00:00	29.00	1112.71	
14:00:30	29.50	1112.67	
14:01:00	30.00	1112.64	
14:01:30	30.50	1112.62	
14:02:00	31.00	1112.57	
14:02:30	31.50	1112.53	

APPENDIX C, Continued
WELL 2-12 ANNULUS PRESSURE DATA
August 25, 2025

Time (CST)	Time (min)	Pressure (psig)	
14:03:00	32.00	1112.50	
14:03:30	32.50	1112.45	
14:04:00	33.00	1112.42	
14:04:30	33.50	1112.38	
14:05:00	34.00	1112.35	
14:05:30	34.50	1112.31	
14:06:00	35.00	1112.27	
14:06:30	35.50	1112.26	
14:07:00	36.00	1112.22	
14:07:30	36.50	1112.20	
14:08:00	37.00	1112.17	
14:08:30	37.50	1112.13	
14:09:00	38.00	1112.11	
14:09:30	38.50	1112.08	
14:10:00	39.00	1112.05	
14:10:30	39.50	1112.02	
14:11:00	40.00	1111.98	
14:11:30	40.50	1111.95	
14:12:00	41.00	1111.92	
14:12:30	41.50	1111.89	
14:13:00	42.00	1111.85	
14:13:30	42.50	1111.82	
14:14:00	43.00	1111.80	
14:14:30	43.50	1111.78	
14:15:00	44.00	1111.73	
14:15:30	44.50	1111.73	
14:16:00	45.00	1111.70	
14:16:30	45.50	1111.68	
14:17:00	46.00	1111.66	

Time (CST)	Time (min)	Pressure (psig)	
14:17:30	46.50	1111.65	
14:18:00	47.00	1111.63	
14:18:30	47.50	1111.60	
14:19:00	48.00	1111.58	
14:19:30	48.50	1111.55	
14:20:00	49.00	1111.53	
14:20:30	49.50	1111.51	
14:21:00	50.00	1111.48	
14:21:30	50.50	1111.45	
14:22:00	51.00	1111.44	
14:22:30	51.50	1111.41	
14:23:00	52.00	1111.38	
14:23:30	52.50	1111.36	
14:24:00	53.00	1111.35	
14:24:30	53.50	1111.32	
14:25:00	54.00	1111.30	
14:25:30	54.50	1111.27	
14:26:00	55.00	1111.25	
14:26:30	55.50	1111.24	
14:27:00	56.00	1111.21	
14:27:30	56.50	1111.19	
14:28:00	57.00	1111.16	
14:28:30	57.50	1111.15	
14:29:00	58.00	1111.13	
14:29:30	58.50	1111.10	
14:30:00	59.00	1111.09	
14:30:30	59.50	1111.07	
14:31:00	60.00	1111.05	END

APPENDIX D
CALIBRATION CERTIFICATES



Cal-scan Services Ltd.

4188-93 Street

Edmonton, Alberta, Canada

T6E 5P5

Phone: (780) 944-1377 Fax: (780) 944 - 1406

Calibration Certificate**Model :** Badger Low Temp**Range :** 10,000.00 psi**Serial Number :** 91873**Last Cal. Date :** 10-October-2024**Specifications**

Calibration Pressure Range: 0.00 10,000.00 psi

Calibration Temperature Range: 0.00 150.00 °C

Pressure: Accuracy ± 2.4000 psi (0.024 %FS)

Resolution ± 0.0300 psi (0.0003 %FS)

Temperature: Accuracy ± 0.40 °C

Resolution ± 0.001 °C

Calibration Summary

Pressure: Accuracy (maximum error) 0.61 psi

Temperature: Accuracy (maximum error) 0.17 °C

Traceability Statement

All working standards are traceable to national or internationally recognized standards.

Calibrated with Cal-Scan DWG # 6

Calibrated by:


Ryan Kryzanowski

Cal-scan Services Ltd.

4188-93 Street
Edmonton, Alberta, Canada
T6E 5P5
Phone: (780) 944-1377 Fax: (780) 944 - 1406

Calibration Certificate**Model :** Badger Low Temp**Range :** 10,000.00 psi**Serial Number :** 91874**Last Cal. Date :** 10-October-2024**Specifications**

Calibration Pressure Range: 0.00 10,000.00 psi

Calibration Temperature Range: 0.00 150.00 °C

Pressure:	Accuracy	±	2.4000 psi (0.024 %FS)
	Resolution	±	0.0300 psi (0.0003 %FS)
Temperature:	Accuracy	±	0.40 °C
	Resolution	±	0.001 °C

Calibration Summary

Pressure: Accuracy (maximum error) 1.15 psi

Temperature: Accuracy (maximum error) 0.17 °C

Traceability Statement

All working standards are traceable to national or internationally recognized standards.

Calibrated with Cal-Scan DWG # 6

Calibrated by:


Ryan Kryzanowski

APPENDIX E

EPA STANDARD ANNULAR PRESSURE TEST FORM



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
STANDARD ANNULAR PRESSURE TEST

Operator	Republic Industrial & Energy Solutions, Inc	State Permit Number	00453
Address	28470 Citrus Dr Romulus, MI 48174	EPA Permit Number	MI-163-1W-CO1
		Date of Test	8/25/25
Well Name & Number	Well EDS 2-12	Well Type	1W

Quarter	Quarter	Quarter	Section	Township	Range	Township Name	County	State
SW	NW	SE	12	35	9E	Georgetown	Wayne	MI
GPS file number		Latitude			Longitude		Elevation	
		42.243714			-83.316904			

Company Representative	Bo Wang	Field Inspector	J. Anne Mifock
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SN GAUGE CERTIFICATION

Type Pressure Gauge Hawk 9000 (62253) } 3 inch face 3500 psi full scale 0.1 psi increments
 New Gauge? Yes No If no, date of calibration 5/20/25 Calibration certification submitted? Yes No

TEST RESULTS

Time	2:31	2:41	2:51	3:01	3:11	3:21	3:31
Annulus <i>psi</i>	1132.1	1129.3	1128.1	1127.3	1126.6	1126.1	1125.7
Tubing <i>psi</i>	-	-1.9	-2.53	-2.53	-2.54	-2.55	-2.55

WELL STATUS

- 5 Year TD# _____
- 2 Year TA TD# _____
- Rework after failure TD# _____
- New Permit TD# _____
- Enforcement Action TD# _____
- Annual Class 1 TD# _____

WELL CONFIGURATION

- Casing Size 7"
- Tubing Size 4 1/2"
- Packer Type Model 12 Hastelloy
- Packer set @ 3930'
- Fluid Return (gal) * Pressure Tank

Test Pressures: Max. Allowable Pressure Change: Initial test pressure x .03 34.0 psi
 Test Pressure change 6.4 psi

Test Passed Test Failed : If failed test, well must shut in, no injection can occur, and USEPA must be contacted within 24 hours. Corrective action needs to occur, the well retested, and written authorization received before injection can recommence.

COMMENT:
 Well shut in since 8/23/25. AP reduced to 715.25 after test. Pressure tank volume during test = 108,97 gal, after test 115.57 gal, fluid return = 6.60 gal

Signature of Company Representative	Date
<i>Bo Wang</i>	8/25/25
Signature of UIC Field Inspector	Date
<i>J. Anne Mifock</i>	8/25/25

APPENDIX F.1

EPA TEMPERATURE SURVEY FORM



BACKGROUND INFORMATION FOR REVIEW OF RADIOACTIVE TRACER SURVEYS FOR CEMENT INTEGRITY

Facility Name Republic Industrial and Energy Solutions, LLC			Operator Republic Industrial and Energy Solutions, LLC		
Well Name #2-12			USEPA Permit Number MI-163-1W-C0011	Witness JoAnne Mitock	
State MI	Test Date 8/26/2025		Logging Company Michigan Wireline	Depth Reference: Kelly Bushing <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/>	
Well and Operational Information					
Long String Casing Material K-55, LT&C	Long String Casing OD, ins 7.0	Casing weight, #/ft 26	Casing ID, ins. 6.276	Long String Casing Length, ft 3982	
Tubing Material Blue Box 2000	Tubing OD, ins 45	Tubing weight, #/ft 4	Tubing ID, ins. 3.98	Tubing Length, ft 3930	
Tail Pipe Material N/A	Tail Pipe OD, ins N/A	Tail Pipe weight#/ft. N/A	Tail Pipe ID, ins. N/A	Tail Pipe Length, ft N/A	Tail Pipe Depth N/A
	Open Hole diameter, in 8.75	TD, ft 4550	PBTD, ft 4550	Top of Open Interval, ft 3975	
Packer Model Model 12	Packer Type Delta-P	Top of Packer, ft 3930	Bottom of Packer, ft 3935		
Geological Information					
Lowermost USDW Name Sylvania		Fms in Confining Zone Utica Shale and Trenton Limestone		Fms in Injection Zone Franconia, Eau Clair, Mt. Simon	
Base of USDW, ft 400		Depth to top of Confinement Zone 2364		Injection Zone Top, ft 3369	
TOOL INFORMATION					
Ejector, ft above BDE 5.17	TDET, ft above BDET 8.73	MDET, ft above BDET n/a			
CALIBRATION INFORMATION					
Depth BDET, ft 3800	Depth TDET, ft 3791.3	BDET CPSPI 2.5	Lithology (Warm/Cool) Cool	Maximum Reading, LD 6.29 CPS	Minimum Reading, LD 0.1 CPS
Depth BDET, ft 3855	Depth TDET, ft 3946.3	BDET CPSPI 10.3	Lithology (Warm/Cool) Warm	Maximum Reading, LD 17.4 CPS	Minimum Reading, LD 5.3 CPS
FIRST SLUG TRACKING SEQUENCE					
Flow Rate, gpm 46.8	Velocity in tubing, fps 1.0	Depth of deflection on 1st pass, ft 3166	Deflection on 1st pass, LD 500 CPS	Deflection/Background 215 CPS	Passes Through Slug 5
Slug Split? yes or no No	Depth of Split, ft N/A	Moved up, yes or no No	Minimum Slug Depth, ft 3100	Distance above shoe, ft 882	Maximum Slug Depth, ft 4124
FIRST STATIONARY TEST					
Depth of BDET, ft 3960	Depth of TDET, ft 3951.3	BDET to open interval, ft 10	Time at station, mins 34	Injection Rate, gpm 46.8	Log Divisions per Minute 12
Depth at Injection, ft 3750		BDET above end of tubing or casing, ft 10	Reached BDET up, LD	Reach UDET up, LD	Velocity Up, ft/min
2nd Setting Depth, ft	Time of reset	Slug already passed BDET?	Reached BDET up, LD	Slug arrival time	
3rd Setting Depth	Time of reset	Slug already passed BDET?	Reached BDET up, LD	Slug arrival time	
4th setting depth, ft	Time of reset	Slug already passed BDET?	Reached BDET up, LD	Slug arrival time	Upper Limit of Movement, ft

REMEMBER

1. Please fill in the above cells.
2. Inject at highest practicable rate during the stationary test to maximize pressure difference that is the driving force for upward movement of fluid (if it occurs), but at low enough velocity during slug tracking so the slug can be followed effectively.
3. Leave the scaling at the same level for all phases. 40 counts per second per inch is usually effective. We need to be able to see evidence of variation due to lithology.
4. Use big slugs. The height of the deflection caused by the slug should be at least 50 times the difference of the high and low levels measured during logging the initial log.
5. If you record times of arrival, that should be the arrival of the leading edge.
6. The purpose is to determine the shallowest depth at which tracer material leaves the well.
7. When slug tracking, logging through the slug while the last part of the slug is leaving the deeper of the tailpipe or casing is the best way to identify a split. If there is a split, always follow the upper portion to determine the limit of its upward movement.
8. When running the stationary test, set the tool with the bottom detector five feet above the end of the deeper of the tail pipe or casing. If the slug reaches it, move it up in steps to find the shallowest extent of movement.
9. The stationary test must be run long enough to be able to detect upward motion of 2 ft/min.
10. Superimpose the traces of the initial and final base logs.
11. Please submit both the merged and unmerged slug chase records.
12. The test report must explain any anomalies in the results.
13. Please submit the digital logging data on a CD.
14. Submit an up-to-date well schematic.

APPENDIX F.2

EPA RADIOACTIVE TRACER SURVEY FORM



BACKGROUND INFORMATION FOR REVIEW OF TEMPERATURE LOGS

Facility Name Republic Industrial and Energy Solutions, LLC		Operator Republic Industrial and Energy Solutions, LLC	
Well Name #2-12	USEPA Permit Number MI-163-1W-C0011	State Permit Number M-453	
County, State Wayne, Michigan	Test Date August 25, 2025	Depth Reference: Kelly Bushing <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/>	

Well and Operational Information

Top of Open Interval, ft 3975	Tubing Depth, ft 3930	Date of Last Injection 09-12-2025	Is This a Multi-Zone Facility? No
Depth to Base of USDW, ft. 400	Name of lowermost USDW Sylvania	Hour of Last Injection 7:00 am	Other Zones Used at Facility None
Depth to Top of Permitted Int, ft 3937	Name of Injection Interval Franconia, Eau Claire, Mt. Simon	Volume Injected in Past Year, gal 9/2024 - 9/2025 12,528,180 gallons	Name of Shallower Injection Zone N/A
Plugged Back Depth, ft. 4550	Total Depth, ft 4550	Injectate Temperature Variance, °F	Depth to Shallower Injection Zone, ft N/A

Calibration Information

Logging Information

Low Gauge Temperature, °F 34.5	High Gauge Temperature, °F 128.7	Time of Start of Logging 7:46 AM, 09-25-25	
Low Thermometer Temperature, °F 57.76	High Thermometer Temperature, °F 81.81	Days Since Last Injection 13	Maximum Log Depth, ft. 4457
Were Log Readings Adjusted? No	Gauge Calibration Date 09-25-25	Multiple Log Runs? No	Maximum Logging Speed, ft/min 30.22

REMEMBER

1. Please fill in the above cells.
2. The well should have been shut in for at least 36 hours or until temperatures have stabilized (based on previous logs).
3. If the well cannot be shut in for 36 hours, shut in as long as possible and run two logs at least six hours apart.
4. Calibrate the temperature tool at two different temperatures immediately prior to running the test.
5. Record log data at least once per foot.
6. Record natural gamma ray activity log with temperature.
7. Log top to bottom. Keep logging speed below 30 feet per minute.
8. Log quality in air-filled holes can be improved by logging at a slower speed. Please reduce logging speed to less than 20 feet per minute in the top 1000 feet of air-filled holes.
9. The report on the test must explain any anomalies shown on the log.
10. Submit digital logging data on a CD in .las or .asc format.
11. Submit an up-to-date well schematic.

APPENDIX G

RADIOACTIVE TRACER SURVEY LETTER OF INTERPRATION





michigan wireline services

4854 E. RIVER ROAD • P.O. BOX 782 • MT. PLEASANT, MI 48804-0782
(989) 772-5075

08/26/2025

Republic Services

Romulus Storage

Well #2-12

A static temperature log was run before the Trace log, from surface to 4454', fluid level was found at 165'. The log is consistent with previous Temperature logs.

A Base log was run from 4263' to above 3000' to establish a base gamma ray for the well pre-ejection of RA material. Two statistical 5-minute time drives were also run to establish the tools functionality. These were done at 3800' and 3855'.

The logging tool was then brought back up to 3100' and the water was pumped into the hole at 46.8 GPM. Once the proper depth and rate were established 4 seconds of RA material (Iodine 131) was ejected into the well. The tool was quickly lowered below the moving RA material and logged back up to the original ejection point of 3100'. Several other passes down through the RA material and back up to the last catch were made to establish flow in the proper direction into the injection zone.

Once the RA count dropped below 50 cps the tool was brought back up to 3750' and rate maintained at 46.8 GPM. 4 seconds of RA material was ejected at 3750' then the tool was moved to 3960' and a time drive log was started. Once the RA material passed both detectors a timer was started to establish a 30-minute window to watch for RA material moving up hole past the packer.

Finally, after 30 minutes the tool was returned to the deepest achievable depth of 4267' and a final base log was run to 3000' this final pass and the base pass are plotted together to establish that no RA material moved up hole past the packer at any point during testing.

No RA material migration upward from the packer was noted during any of the testing.

Thanks
Brian Wright

APPENDIX H

**RAW PRESSURE AND TEMPERATURE DATA
(ABRIDGED)**



<h2 style="text-align: center;">Appendix H: Raw Pressure & Temperature Data</h2>								
Well Name: Well 2-12			Job Number: 192128EUSS.7160					
Operating Company: Republic Industrial & Energy Solutions, LLC			WSP Rep.: Gabe Holmes					
Well Location: Romulus, MI			Data Start: 8/28/25 06:35:59					
Wireline Company: Impact Solutions			Data End: 8/29/25 16:50:59					
Downhole Data Recorder: MRO 2 Serial No. 91874 (Lower Gauge)			Data Interval (secs): 60					
Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 06:35:59	1.923	57.112	8/28/25 07:25:59	1854.128	74.656	8/28/25 08:15:59	1854.061	74.443
8/28/25 06:36:59	1.733	57.147	8/28/25 07:26:59	1854.141	74.642	8/28/25 08:16:59	1854.033	74.432
8/28/25 06:37:59	1.612	57.148	8/28/25 07:27:59	1854.137	74.625	8/28/25 08:17:59	1854.042	74.438
8/28/25 06:38:59	1.514	57.122	8/28/25 07:28:59	1854.135	74.613	8/28/25 08:18:59	1854.070	74.442
8/28/25 06:39:59	1.648	57.040	8/28/25 07:29:59	1854.136	74.601	8/28/25 08:19:59	1854.030	74.427
8/28/25 06:40:59	1.412	56.875	8/28/25 07:30:59	1854.144	74.588	8/28/25 08:20:59	1854.040	74.428
8/28/25 06:41:59	1.423	56.727	8/28/25 07:31:59	1854.140	74.579	8/28/25 08:21:59	1854.036	74.434
8/28/25 06:42:59	1.512	56.599	8/28/25 07:32:59	1854.128	74.570	8/28/25 08:22:59	1854.011	74.425
8/28/25 06:43:59	1.428	56.478	8/28/25 07:33:59	1854.136	74.568	8/28/25 08:23:59	1854.024	74.428
8/28/25 06:44:59	1.311	56.380	8/28/25 07:34:59	1854.122	74.555	8/28/25 08:24:59	1854.031	74.431
8/28/25 06:45:59	1.322	56.293	8/28/25 07:35:59	1854.107	74.546	8/28/25 08:25:59	1853.996	74.418
8/28/25 06:46:59	1.372	56.208	8/28/25 07:36:59	1854.113	74.538	8/28/25 08:26:59	1854.021	74.425
8/28/25 06:47:59	1.305	56.133	8/28/25 07:37:59	1854.112	74.537	8/28/25 08:27:59	1854.019	74.426
8/28/25 06:48:59	1.366	56.064	8/28/25 07:38:59	1854.117	74.529	8/28/25 08:28:59	1881.211	74.430
8/28/25 06:49:59	1.327	55.992	8/28/25 07:39:59	1854.116	74.526	8/28/25 08:29:59	1929.927	74.653
8/28/25 06:50:59	1.407	55.931	8/28/25 07:40:59	1854.089	74.514	8/28/25 08:30:59	1946.780	75.971
8/28/25 06:51:59	1.243	55.874	8/28/25 07:41:59	1854.120	74.519	8/28/25 08:31:59	1950.256	77.654
8/28/25 06:52:59	1.235	55.822	8/28/25 07:42:59	1854.113	74.510	8/28/25 08:32:59	1956.718	78.676
8/28/25 06:53:59	1.287	55.763	8/28/25 07:43:59	1854.108	74.510	8/28/25 08:33:59	1962.159	79.143
8/28/25 06:54:59	1.254	55.715	8/28/25 07:44:59	1854.115	74.505	8/28/25 08:34:59	1966.729	79.269
8/28/25 06:55:59	1.185	55.675	8/28/25 07:45:59	1854.090	74.496	8/28/25 08:35:59	1970.339	79.182
8/28/25 06:56:59	1.130	55.656	8/28/25 07:46:59	1854.093	74.494	8/28/25 08:36:59	1973.713	78.968
8/28/25 06:57:59	1.121	55.623	8/28/25 07:47:59	1854.101	74.492	8/28/25 08:37:59	1976.436	78.695
8/28/25 06:58:59	1.165	55.623	8/28/25 07:48:59	1854.104	74.490	8/28/25 08:38:59	1978.989	78.359
8/28/25 06:59:59	130.812	56.060	8/28/25 07:49:59	1854.097	74.488	8/28/25 08:39:59	1981.008	77.978
8/28/25 07:00:59	130.342	56.460	8/28/25 07:50:59	1854.087	74.486	8/28/25 08:40:59	1982.916	77.633
8/28/25 07:01:59	145.585	57.302	8/28/25 07:51:59	1854.096	74.480	8/28/25 08:41:59	1984.647	77.298
8/28/25 07:02:59	276.145	57.826	8/28/25 07:52:59	1854.073	74.472	8/28/25 08:42:59	1986.202	76.972
8/28/25 07:03:59	424.731	56.605	8/28/25 07:53:59	1854.092	74.475	8/28/25 08:43:59	1987.539	76.644
8/28/25 07:04:59	627.869	57.528	8/28/25 07:54:59	1854.095	74.471	8/28/25 08:44:59	1988.803	76.294
8/28/25 07:05:59	832.421	59.160	8/28/25 07:55:59	1854.099	74.469	8/28/25 08:45:59	1990.169	75.900
8/28/25 07:06:59	1052.631	61.056	8/28/25 07:56:59	1854.088	74.466	8/28/25 08:46:59	1991.099	75.395
8/28/25 07:07:59	1292.827	64.167	8/28/25 07:57:59	1854.100	74.466	8/28/25 08:47:59	1992.293	74.806
8/28/25 07:08:59	1547.207	70.682	8/28/25 07:58:59	1854.078	74.458	8/28/25 08:48:59	1993.273	74.178
8/28/25 07:09:59	1792.939	76.408	8/28/25 07:59:59	1854.073	74.456	8/28/25 08:49:59	1994.197	73.528
8/28/25 07:10:59	1853.446	76.753	8/28/25 08:00:59	1854.082	74.461	8/28/25 08:50:59	1994.997	72.884
8/28/25 07:11:59	1854.073	75.907	8/28/25 08:01:59	1854.088	74.462	8/28/25 08:51:59	1995.637	72.304
8/28/25 07:12:59	1853.898	75.491	8/28/25 08:02:59	1854.075	74.453	8/28/25 08:52:59	1996.465	71.776
8/28/25 07:13:59	1853.981	75.264	8/28/25 08:03:59	1854.078	74.458	8/28/25 08:53:59	1997.053	71.269
8/28/25 07:14:59	1853.970	75.131	8/28/25 08:04:59	1854.061	74.451	8/28/25 08:54:59	1997.772	70.765
8/28/25 07:15:59	1853.954	75.028	8/28/25 08:05:59	1854.072	74.450	8/28/25 08:55:59	1998.276	70.288
8/28/25 07:16:59	1853.975	74.957	8/28/25 08:06:59	1854.068	74.448	8/28/25 08:56:59	1998.797	69.845
8/28/25 07:17:59	1854.117	74.891	8/28/25 08:07:59	1854.055	74.444	8/28/25 08:57:59	1999.310	69.405
8/28/25 07:18:59	1854.076	74.845	8/28/25 08:08:59	1854.057	74.445	8/28/25 08:58:59	1999.885	69.014
8/28/25 07:19:59	1854.129	74.803	8/28/25 08:09:59	1854.058	74.447	8/28/25 08:59:59	2000.387	68.674
8/28/25 07:20:59	1854.104	74.768	8/28/25 08:10:59	1854.060	74.443	8/28/25 09:00:59	2000.876	68.380
8/28/25 07:21:59	1854.134	74.735	8/28/25 08:11:59	1854.057	74.443	8/28/25 09:01:59	2001.242	68.128
8/28/25 07:22:59	1854.164	74.714	8/28/25 08:12:59	1854.061	74.441	8/28/25 09:02:59	2001.724	67.904
8/28/25 07:23:59	1854.130	74.692	8/28/25 08:13:59	1854.051	74.439	8/28/25 09:03:59	2002.067	67.693
8/28/25 07:24:59	1854.132	74.674	8/28/25 08:14:59	1854.061	74.439	8/28/25 09:04:59	2002.552	67.472

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 09:05:59	2002.810	67.256	8/28/25 10:05:59	2014.233	67.027	8/28/25 11:05:59	2016.682	67.993
8/28/25 09:06:59	2003.255	67.052	8/28/25 10:06:59	2014.292	67.064	8/28/25 11:06:59	2016.705	67.991
8/28/25 09:07:59	2003.574	66.863	8/28/25 10:07:59	2014.359	67.099	8/28/25 11:07:59	2016.724	67.989
8/28/25 09:08:59	2003.906	66.708	8/28/25 10:08:59	2014.460	67.137	8/28/25 11:08:59	2016.719	67.980
8/28/25 09:09:59	2004.277	66.559	8/28/25 10:09:59	2014.513	67.174	8/28/25 11:09:59	2016.715	67.976
8/28/25 09:10:59	2004.690	66.400	8/28/25 10:10:59	2014.576	67.212	8/28/25 11:10:59	2016.742	67.973
8/28/25 09:11:59	2005.001	66.248	8/28/25 10:11:59	2014.643	67.241	8/28/25 11:11:59	2016.763	67.965
8/28/25 09:12:59	2005.330	66.091	8/28/25 10:12:59	2014.739	67.285	8/28/25 11:12:59	2016.787	67.964
8/28/25 09:13:59	2005.678	65.926	8/28/25 10:13:59	2014.776	67.311	8/28/25 11:13:59	2016.822	67.963
8/28/25 09:14:59	2005.897	65.763	8/28/25 10:14:59	2014.831	67.347	8/28/25 11:14:59	2016.833	67.957
8/28/25 09:15:59	2006.304	65.595	8/28/25 10:15:59	2014.873	67.372	8/28/25 11:15:59	2016.859	67.950
8/28/25 09:16:59	2006.511	65.439	8/28/25 10:16:59	2014.949	67.401	8/28/25 11:16:59	2016.894	67.950
8/28/25 09:17:59	2006.872	65.310	8/28/25 10:17:59	2015.011	67.430	8/28/25 11:17:59	2016.903	67.935
8/28/25 09:18:59	2007.108	65.181	8/28/25 10:18:59	2015.073	67.456	8/28/25 11:18:59	2016.939	67.930
8/28/25 09:19:59	2007.357	65.065	8/28/25 10:19:59	2015.142	67.481	8/28/25 11:19:59	2016.938	67.916
8/28/25 09:20:59	2007.614	64.938	8/28/25 10:20:59	2015.194	67.504	8/28/25 11:20:59	2016.978	67.903
8/28/25 09:21:59	2007.776	64.817	8/28/25 10:21:59	2015.246	67.520	8/28/25 11:21:59	2017.003	67.900
8/28/25 09:22:59	2007.954	64.681	8/28/25 10:22:59	2015.310	67.551	8/28/25 11:22:59	2017.010	67.894
8/28/25 09:23:59	2008.210	64.546	8/28/25 10:23:59	2015.363	67.571	8/28/25 11:23:59	2017.013	67.883
8/28/25 09:24:59	2008.379	64.407	8/28/25 10:24:59	2015.420	67.594	8/28/25 11:24:59	2017.072	67.892
8/28/25 09:25:59	2008.499	64.282	8/28/25 10:25:59	2015.480	67.620	8/28/25 11:25:59	2017.078	67.884
8/28/25 09:26:59	2008.751	64.176	8/28/25 10:26:59	2015.531	67.637	8/28/25 11:26:59	2017.072	67.875
8/28/25 09:27:59	2008.781	64.081	8/28/25 10:27:59	2015.578	67.658	8/28/25 11:27:59	2017.061	67.872
8/28/25 09:28:59	2009.017	64.021	8/28/25 10:28:59	2015.611	67.670	8/28/25 11:28:59	2017.071	67.867
8/28/25 09:29:59	2009.165	63.999	8/28/25 10:29:59	2015.686	67.692	8/28/25 11:29:59	2017.096	67.857
8/28/25 09:30:59	2009.400	64.027	8/28/25 10:30:59	2015.740	67.715	8/28/25 11:30:59	2017.120	67.862
8/28/25 09:31:59	2009.650	64.131	8/28/25 10:31:59	2015.771	67.733	8/28/25 11:31:59	2017.125	67.852
8/28/25 09:32:59	2009.884	64.322	8/28/25 10:32:59	2015.812	67.751	8/28/25 11:32:59	2017.140	67.850
8/28/25 09:33:59	2010.050	64.577	8/28/25 10:33:59	2015.834	67.763	8/28/25 11:33:59	2017.149	67.847
8/28/25 09:34:59	2010.154	64.854	8/28/25 10:34:59	2015.899	67.795	8/28/25 11:34:59	2017.141	67.844
8/28/25 09:35:59	2010.259	65.127	8/28/25 10:35:59	2015.897	67.805	8/28/25 11:35:59	2017.194	67.847
8/28/25 09:36:59	2010.421	65.369	8/28/25 10:36:59	2015.953	67.833	8/28/25 11:36:59	2017.236	67.848
8/28/25 09:37:59	2010.632	65.573	8/28/25 10:37:59	2015.964	67.847	8/28/25 11:37:59	2017.209	67.842
8/28/25 09:38:59	2010.868	65.736	8/28/25 10:38:59	2015.993	67.867	8/28/25 11:38:59	2017.231	67.849
8/28/25 09:39:59	2010.961	65.864	8/28/25 10:39:59	2016.032	67.888	8/28/25 11:39:59	2017.253	67.843
8/28/25 09:40:59	2011.148	65.961	8/28/25 10:40:59	2016.038	67.895	8/28/25 11:40:59	2017.262	67.839
8/28/25 09:41:59	2011.253	66.040	8/28/25 10:41:59	2016.084	67.914	8/28/25 11:41:59	2017.274	67.837
8/28/25 09:42:59	2011.401	66.109	8/28/25 10:42:59	2016.118	67.926	8/28/25 11:42:59	2017.239	67.831
8/28/25 09:43:59	2011.526	66.153	8/28/25 10:43:59	2016.141	67.940	8/28/25 11:43:59	2017.234	67.832
8/28/25 09:44:59	2011.668	66.199	8/28/25 10:44:59	2016.145	67.950	8/28/25 11:44:59	2017.274	67.837
8/28/25 09:45:59	2011.853	66.232	8/28/25 10:45:59	2016.176	67.959	8/28/25 11:45:59	2017.283	67.832
8/28/25 09:46:59	2011.972	66.260	8/28/25 10:46:59	2016.196	67.969	8/28/25 11:46:59	2017.309	67.832
8/28/25 09:47:59	2012.105	66.293	8/28/25 10:47:59	2016.156	67.978	8/28/25 11:47:59	2017.284	67.816
8/28/25 09:48:59	2012.346	66.320	8/28/25 10:48:59	2016.210	67.988	8/28/25 11:48:59	2017.309	67.823
8/28/25 09:49:59	2012.479	66.349	8/28/25 10:49:59	2016.258	67.998	8/28/25 11:49:59	2017.332	67.826
8/28/25 09:50:59	2012.658	66.376	8/28/25 10:50:59	2016.286	67.999	8/28/25 11:50:59	2017.317	67.818
8/28/25 09:51:59	2012.805	66.412	8/28/25 10:51:59	2016.308	67.998	8/28/25 11:51:59	2017.367	67.819
8/28/25 09:52:59	2012.933	66.445	8/28/25 10:52:59	2016.342	68.009	8/28/25 11:52:59	2017.395	67.819
8/28/25 09:53:59	2013.081	66.488	8/28/25 10:53:59	2016.342	68.004	8/28/25 11:53:59	2017.377	67.819
8/28/25 09:54:59	2013.183	66.534	8/28/25 10:54:59	2016.394	68.012	8/28/25 11:54:59	2017.379	67.817
8/28/25 09:55:59	2013.294	66.584	8/28/25 10:55:59	2016.413	68.005	8/28/25 11:55:59	2017.408	67.816
8/28/25 09:56:59	2013.399	66.628	8/28/25 10:56:59	2016.452	68.007	8/28/25 11:56:59	2017.423	67.812
8/28/25 09:57:59	2013.499	66.674	8/28/25 10:57:59	2016.470	68.005	8/28/25 11:57:59	2017.437	67.814
8/28/25 09:58:59	2013.602	66.719	8/28/25 10:58:59	2016.529	68.015	8/28/25 11:58:59	2017.411	67.810
8/28/25 09:59:59	2013.714	66.774	8/28/25 10:59:59	2016.539	68.013	8/28/25 11:59:59	2017.419	67.810
8/28/25 10:00:59	2013.818	66.819	8/28/25 11:00:59	2016.549	68.007	8/28/25 12:00:59	2017.426	67.805
8/28/25 10:01:59	2013.900	66.861	8/28/25 11:01:59	2016.593	68.008	8/28/25 12:01:59	2017.438	67.805
8/28/25 10:02:59	2013.989	66.902	8/28/25 11:02:59	2016.629	68.006	8/28/25 12:02:59	2017.457	67.808
8/28/25 10:03:59	2014.069	66.944	8/28/25 11:03:59	2016.625	68.008	8/28/25 12:03:59	2017.469	67.806
8/28/25 10:04:59	2014.146	66.983	8/28/25 11:04:59	2016.659	68.002	8/28/25 12:04:59	2017.465	67.799

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 12:05:59	2017.501	67.804	8/28/25 13:05:59	2018.155	67.906	8/28/25 14:05:59	2018.688	68.120
8/28/25 12:06:59	2017.523	67.810	8/28/25 13:06:59	2018.179	67.912	8/28/25 14:06:59	2018.710	68.125
8/28/25 12:07:59	2018.132	67.805	8/28/25 13:07:59	2018.214	67.920	8/28/25 14:07:59	2018.710	68.123
8/28/25 12:08:59	2018.296	67.810	8/28/25 13:08:59	2018.230	67.919	8/28/25 14:08:59	2018.718	68.126
8/28/25 12:09:59	2018.497	67.811	8/28/25 13:09:59	2018.236	67.919	8/28/25 14:09:59	2018.706	68.128
8/28/25 12:10:59	2018.596	67.807	8/28/25 13:10:59	2018.273	67.924	8/28/25 14:10:59	2018.715	68.128
8/28/25 12:11:59	2018.569	67.812	8/28/25 13:11:59	2018.273	67.928	8/28/25 14:11:59	2018.723	68.138
8/28/25 12:12:59	2018.449	67.810	8/28/25 13:12:59	2018.290	67.931	8/28/25 14:12:59	2018.739	68.138
8/28/25 12:13:59	2018.404	67.805	8/28/25 13:13:59	2018.292	67.931	8/28/25 14:13:59	2018.752	68.142
8/28/25 12:14:59	2018.304	67.810	8/28/25 13:14:59	2018.318	67.939	8/28/25 14:14:59	2018.759	68.142
8/28/25 12:15:59	2018.228	67.809	8/28/25 13:15:59	2018.310	67.936	8/28/25 14:15:59	2018.766	68.144
8/28/25 12:16:59	2018.183	67.806	8/28/25 13:16:59	2018.311	67.945	8/28/25 14:16:59	2018.773	68.148
8/28/25 12:17:59	2018.117	67.809	8/28/25 13:17:59	2018.326	67.946	8/28/25 14:17:59	2018.766	68.152
8/28/25 12:18:59	2018.076	67.809	8/28/25 13:18:59	2018.335	67.951	8/28/25 14:18:59	2018.766	68.152
8/28/25 12:19:59	2018.048	67.802	8/28/25 13:19:59	2018.328	67.948	8/28/25 14:19:59	2018.799	68.157
8/28/25 12:20:59	2018.056	67.812	8/28/25 13:20:59	2018.334	67.954	8/28/25 14:20:59	2018.820	68.159
8/28/25 12:21:59	2018.042	67.809	8/28/25 13:21:59	2018.355	67.957	8/28/25 14:21:59	2018.790	68.162
8/28/25 12:22:59	2018.045	67.810	8/28/25 13:22:59	2018.378	67.965	8/28/25 14:22:59	2018.771	68.165
8/28/25 12:23:59	2018.039	67.810	8/28/25 13:23:59	2018.394	67.965	8/28/25 14:23:59	2018.801	68.168
8/28/25 12:24:59	2018.045	67.812	8/28/25 13:24:59	2018.413	67.971	8/28/25 14:24:59	2018.816	68.169
8/28/25 12:25:59	2018.046	67.811	8/28/25 13:25:59	2018.356	67.971	8/28/25 14:25:59	2018.810	68.168
8/28/25 12:26:59	2018.056	67.809	8/28/25 13:26:59	2018.370	67.980	8/28/25 14:26:59	2018.821	68.169
8/28/25 12:27:59	2018.067	67.815	8/28/25 13:27:59	2018.393	67.981	8/28/25 14:27:59	2018.849	68.181
8/28/25 12:28:59	2018.046	67.813	8/28/25 13:28:59	2018.402	67.990	8/28/25 14:28:59	2018.838	68.183
8/28/25 12:29:59	2018.043	67.810	8/28/25 13:29:59	2018.384	67.987	8/28/25 14:29:59	2018.814	68.182
8/28/25 12:30:59	2018.060	67.815	8/28/25 13:30:59	2018.406	67.995	8/28/25 14:30:59	2018.793	68.187
8/28/25 12:31:59	2018.088	67.818	8/28/25 13:31:59	2018.415	68.000	8/28/25 14:31:59	2018.810	68.189
8/28/25 12:32:59	2018.086	67.821	8/28/25 13:32:59	2018.426	67.998	8/28/25 14:32:59	2018.822	68.194
8/28/25 12:33:59	2018.087	67.820	8/28/25 13:33:59	2018.453	68.007	8/28/25 14:33:59	2018.821	68.194
8/28/25 12:34:59	2018.118	67.826	8/28/25 13:34:59	2018.452	68.008	8/28/25 14:34:59	2018.837	68.200
8/28/25 12:35:59	2018.100	67.823	8/28/25 13:35:59	2018.463	68.016	8/28/25 14:35:59	2018.837	68.200
8/28/25 12:36:59	2018.078	67.827	8/28/25 13:36:59	2018.470	68.011	8/28/25 14:36:59	2018.863	68.210
8/28/25 12:37:59	2018.089	67.828	8/28/25 13:37:59	2018.491	68.019	8/28/25 14:37:59	2018.849	68.204
8/28/25 12:38:59	2018.103	67.831	8/28/25 13:38:59	2018.499	68.024	8/28/25 14:38:59	2018.877	68.210
8/28/25 12:39:59	2018.098	67.834	8/28/25 13:39:59	2018.485	68.025	8/28/25 14:39:59	2018.892	68.210
8/28/25 12:40:59	2018.083	67.836	8/28/25 13:40:59	2018.507	68.036	8/28/25 14:40:59	2018.891	68.218
8/28/25 12:41:59	2018.075	67.838	8/28/25 13:41:59	2018.507	68.031	8/28/25 14:41:59	2018.857	68.217
8/28/25 12:42:59	2018.106	67.842	8/28/25 13:42:59	2018.536	68.038	8/28/25 14:42:59	2018.835	68.218
8/28/25 12:43:59	2018.105	67.845	8/28/25 13:43:59	2018.542	68.038	8/28/25 14:43:59	2018.826	68.224
8/28/25 12:44:59	2018.116	67.846	8/28/25 13:44:59	2018.526	68.047	8/28/25 14:44:59	2018.846	68.227
8/28/25 12:45:59	2018.107	67.846	8/28/25 13:45:59	2018.549	68.046	8/28/25 14:45:59	2018.873	68.233
8/28/25 12:46:59	2018.128	67.851	8/28/25 13:46:59	2018.584	68.057	8/28/25 14:46:59	2018.881	68.231
8/28/25 12:47:59	2018.139	67.852	8/28/25 13:47:59	2018.552	68.051	8/28/25 14:47:59	2018.917	68.241
8/28/25 12:48:59	2018.147	67.855	8/28/25 13:48:59	2018.561	68.059	8/28/25 14:48:59	2018.908	68.239
8/28/25 12:49:59	2018.150	67.856	8/28/25 13:49:59	2018.531	68.062	8/28/25 14:49:59	2018.914	68.245
8/28/25 12:50:59	2018.191	67.862	8/28/25 13:50:59	2018.501	68.064	8/28/25 14:50:59	2018.902	68.245
8/28/25 12:51:59	2018.215	67.866	8/28/25 13:51:59	2018.504	68.071	8/28/25 14:51:59	2018.895	68.250
8/28/25 12:52:59	2018.221	67.872	8/28/25 13:52:59	2018.482	68.070	8/28/25 14:52:59	2018.890	68.250
8/28/25 12:53:59	2018.217	67.874	8/28/25 13:53:59	2018.496	68.074	8/28/25 14:53:59	2018.869	68.253
8/28/25 12:54:59	2018.200	67.873	8/28/25 13:54:59	2018.537	68.082	8/28/25 14:54:59	2018.869	68.256
8/28/25 12:55:59	2018.201	67.877	8/28/25 13:55:59	2018.537	68.079	8/28/25 14:55:59	2018.889	68.266
8/28/25 12:56:59	2018.231	67.879	8/28/25 13:56:59	2018.552	68.082	8/28/25 14:56:59	2018.904	68.265
8/28/25 12:57:59	2018.241	67.883	8/28/25 13:57:59	2018.592	68.097	8/28/25 14:57:59	2018.918	68.270
8/28/25 12:58:59	2018.204	67.880	8/28/25 13:58:59	2018.598	68.089	8/28/25 14:58:59	2018.923	68.267
8/28/25 12:59:59	2018.213	67.885	8/28/25 13:59:59	2018.625	68.097	8/28/25 14:59:59	2018.937	68.274
8/28/25 13:00:59	2018.236	67.893	8/28/25 14:00:59	2018.654	68.103	8/28/25 15:00:59	2018.957	68.272
8/28/25 13:01:59	2018.238	67.894	8/28/25 14:01:59	2018.656	68.103	8/28/25 15:01:59	2018.944	68.272
8/28/25 13:02:59	2018.228	67.898	8/28/25 14:02:59	2018.654	68.105	8/28/25 15:02:59	2018.974	68.276
8/28/25 13:03:59	2018.182	67.898	8/28/25 14:03:59	2018.667	68.110	8/28/25 15:03:59	2019.005	68.282
8/28/25 13:04:59	2018.174	67.904	8/28/25 14:04:59	2018.663	68.114	8/28/25 15:04:59	2019.021	68.288

MEMORY PRESSURE GAUGE DATA
Well 2-12 August 28-29, 2025

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 15:05:59	2018.954	68.279	8/28/25 16:05:59	2019.250	68.402	8/28/25 17:05:59	2019.579	68.473
8/28/25 15:06:59	2018.944	68.285	8/28/25 16:06:59	2019.237	68.405	8/28/25 17:06:59	2019.585	68.472
8/28/25 15:07:59	2018.973	68.290	8/28/25 16:07:59	2019.233	68.402	8/28/25 17:07:59	2019.597	68.472
8/28/25 15:08:59	2019.005	68.295	8/28/25 16:08:59	2019.260	68.411	8/28/25 17:08:59	2019.612	68.472
8/28/25 15:09:59	2018.973	68.295	8/28/25 16:09:59	2019.264	68.405	8/28/25 17:09:59	2019.650	68.480
8/28/25 15:10:59	2018.966	68.302	8/28/25 16:10:59	2019.306	68.412	8/28/25 17:10:59	2019.634	68.477
8/28/25 15:11:59	2018.958	68.299	8/28/25 16:11:59	2019.317	68.410	8/28/25 17:11:59	2019.646	68.477
8/28/25 15:12:59	2018.972	68.305	8/28/25 16:12:59	2019.332	68.411	8/28/25 17:12:59	2019.637	68.470
8/28/25 15:13:59	2018.975	68.309	8/28/25 16:13:59	2019.349	68.410	8/28/25 17:13:59	2019.655	68.476
8/28/25 15:14:59	2018.976	68.304	8/28/25 16:14:59	2019.351	68.409	8/28/25 17:14:59	2019.661	68.475
8/28/25 15:15:59	2018.986	68.307	8/28/25 16:15:59	2019.371	68.419	8/28/25 17:15:59	2019.686	68.480
8/28/25 15:16:59	2019.006	68.317	8/28/25 16:16:59	2019.358	68.410	8/28/25 17:16:59	2019.710	68.485
8/28/25 15:17:59	2019.025	68.315	8/28/25 16:17:59	2019.370	68.417	8/28/25 17:17:59	2019.714	68.483
8/28/25 15:18:59	2019.055	68.320	8/28/25 16:18:59	2019.346	68.415	8/28/25 17:18:59	2019.721	68.481
8/28/25 15:19:59	2019.044	68.320	8/28/25 16:19:59	2019.321	68.417	8/28/25 17:19:59	2019.727	68.482
8/28/25 15:20:59	2019.005	68.323	8/28/25 16:20:59	2019.296	68.411	8/28/25 17:20:59	2019.733	68.485
8/28/25 15:21:59	2018.987	68.324	8/28/25 16:21:59	2019.302	68.425	8/28/25 17:21:59	2019.742	68.488
8/28/25 15:22:59	2018.979	68.322	8/28/25 16:22:59	2019.297	68.423	8/28/25 17:22:59	2019.691	68.481
8/28/25 15:23:59	2019.022	68.335	8/28/25 16:23:59	2019.312	68.422	8/28/25 17:23:59	2019.693	68.488
8/28/25 15:24:59	2019.051	68.336	8/28/25 16:24:59	2019.325	68.424	8/28/25 17:24:59	2019.670	68.486
8/28/25 15:25:59	2019.066	68.336	8/28/25 16:25:59	2019.349	68.429	8/28/25 17:25:59	2019.670	68.479
8/28/25 15:26:59	2019.010	68.331	8/28/25 16:26:59	2019.365	68.429	8/28/25 17:26:59	2019.717	68.493
8/28/25 15:27:59	2018.997	68.336	8/28/25 16:27:59	2019.383	68.432	8/28/25 17:27:59	2019.713	68.488
8/28/25 15:28:59	2019.003	68.340	8/28/25 16:28:59	2019.394	68.434	8/28/25 17:28:59	2019.723	68.489
8/28/25 15:29:59	2019.020	68.344	8/28/25 16:29:59	2019.381	68.432	8/28/25 17:29:59	2019.732	68.484
8/28/25 15:30:59	2019.040	68.345	8/28/25 16:30:59	2019.392	68.434	8/28/25 17:30:59	2019.756	68.491
8/28/25 15:31:59	2019.047	68.346	8/28/25 16:31:59	2019.395	68.435	8/28/25 17:31:59	2019.776	68.490
8/28/25 15:32:59	2019.057	68.346	8/28/25 16:32:59	2019.391	68.432	8/28/25 17:32:59	2019.795	68.488
8/28/25 15:33:59	2019.086	68.356	8/28/25 16:33:59	2019.418	68.441	8/28/25 17:33:59	2019.836	68.498
8/28/25 15:34:59	2019.085	68.353	8/28/25 16:34:59	2019.417	68.434	8/28/25 17:34:59	2019.817	68.494
8/28/25 15:35:59	2019.083	68.353	8/28/25 16:35:59	2019.433	68.435	8/28/25 17:35:59	2019.824	68.497
8/28/25 15:36:59	2019.094	68.357	8/28/25 16:36:59	2019.443	68.436	8/28/25 17:36:59	2019.816	68.498
8/28/25 15:37:59	2019.091	68.363	8/28/25 16:37:59	2019.445	68.439	8/28/25 17:37:59	2019.803	68.493
8/28/25 15:38:59	2019.110	68.362	8/28/25 16:38:59	2019.483	68.444	8/28/25 17:38:59	2019.787	68.498
8/28/25 15:39:59	2019.111	68.356	8/28/25 16:39:59	2019.510	68.445	8/28/25 17:39:59	2019.780	68.502
8/28/25 15:40:59	2019.128	68.366	8/28/25 16:40:59	2019.516	68.444	8/28/25 17:40:59	2019.771	68.500
8/28/25 15:41:59	2019.098	68.367	8/28/25 16:41:59	2019.505	68.441	8/28/25 17:41:59	2019.772	68.495
8/28/25 15:42:59	2019.096	68.370	8/28/25 16:42:59	2019.529	68.446	8/28/25 17:42:59	2019.794	68.499
8/28/25 15:43:59	2019.110	68.369	8/28/25 16:43:59	2019.528	68.449	8/28/25 17:43:59	2019.810	68.501
8/28/25 15:44:59	2019.142	68.369	8/28/25 16:44:59	2019.504	68.452	8/28/25 17:44:59	2019.828	68.506
8/28/25 15:45:59	2019.137	68.373	8/28/25 16:45:59	2019.481	68.453	8/28/25 17:45:59	2019.816	68.500
8/28/25 15:46:59	2019.104	68.370	8/28/25 16:46:59	2019.457	68.453	8/28/25 17:46:59	2019.850	68.509
8/28/25 15:47:59	2019.083	68.372	8/28/25 16:47:59	2019.445	68.450	8/28/25 17:47:59	2019.843	68.504
8/28/25 15:48:59	2019.107	68.379	8/28/25 16:48:59	2019.459	68.452	8/28/25 17:48:59	2019.847	68.503
8/28/25 15:49:59	2019.115	68.377	8/28/25 16:49:59	2019.495	68.459	8/28/25 17:49:59	2019.884	68.508
8/28/25 15:50:59	2019.132	68.377	8/28/25 16:50:59	2019.492	68.451	8/28/25 17:50:59	2019.912	68.511
8/28/25 15:51:59	2019.156	68.379	8/28/25 16:51:59	2019.533	68.451	8/28/25 17:51:59	2019.911	68.507
8/28/25 15:52:59	2019.184	68.389	8/28/25 16:52:59	2019.561	68.451	8/28/25 17:52:59	2019.947	68.509
8/28/25 15:53:59	2019.193	68.381	8/28/25 16:53:59	2019.568	68.451	8/28/25 17:53:59	2019.958	68.512
8/28/25 15:54:59	2019.231	68.390	8/28/25 16:54:59	2019.590	68.461	8/28/25 17:54:59	2019.977	68.513
8/28/25 15:55:59	2019.230	68.389	8/28/25 16:55:59	2019.601	68.457	8/28/25 17:55:59	2019.974	68.513
8/28/25 15:56:59	2019.226	68.391	8/28/25 16:56:59	2019.591	68.458	8/28/25 17:56:59	2019.947	68.512
8/28/25 15:57:59	2019.266	68.394	8/28/25 16:57:59	2019.587	68.465	8/28/25 17:57:59	2019.920	68.513
8/28/25 15:58:59	2019.283	68.394	8/28/25 16:58:59	2019.579	68.463	8/28/25 17:58:59	2019.891	68.511
8/28/25 15:59:59	2019.272	68.397	8/28/25 16:59:59	2019.553	68.464	8/28/25 17:59:59	2019.868	68.505
8/28/25 16:00:59	2019.301	68.400	8/28/25 17:00:59	2019.539	68.468	8/28/25 18:00:59	2019.909	68.510
8/28/25 16:01:59	2019.318	68.400	8/28/25 17:01:59	2019.513	68.464	8/28/25 18:01:59	2019.925	68.510
8/28/25 16:02:59	2019.317	68.400	8/28/25 17:02:59	2019.521	68.468	8/28/25 18:02:59	2019.964	68.514
8/28/25 16:03:59	2019.322	68.402	8/28/25 17:03:59	2019.543	68.468	8/28/25 18:03:59	2019.981	68.516
8/28/25 16:04:59	2019.267	68.394	8/28/25 17:04:59	2019.560	68.472	8/28/25 18:04:59	2019.994	68.515

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 18:05:59	2019.995	68.520	8/28/25 19:05:59	2020.399	68.563	8/28/25 20:05:59	2020.840	68.567
8/28/25 18:06:59	2020.012	68.519	8/28/25 19:06:59	2020.381	68.563	8/28/25 20:06:59	2020.840	68.561
8/28/25 18:07:59	2020.053	68.522	8/28/25 19:07:59	2020.380	68.566	8/28/25 20:07:59	2020.852	68.564
8/28/25 18:08:59	2020.056	68.518	8/28/25 19:08:59	2020.372	68.564	8/28/25 20:08:59	2020.846	68.562
8/28/25 18:09:59	2020.088	68.520	8/28/25 19:09:59	2020.360	68.562	8/28/25 20:09:59	2020.859	68.562
8/28/25 18:10:59	2020.092	68.523	8/28/25 19:10:59	2020.351	68.564	8/28/25 20:10:59	2020.894	68.570
8/28/25 18:11:59	2020.101	68.523	8/28/25 19:11:59	2020.348	68.566	8/28/25 20:11:59	2020.894	68.562
8/28/25 18:12:59	2020.074	68.519	8/28/25 19:12:59	2020.370	68.568	8/28/25 20:12:59	2020.913	68.566
8/28/25 18:13:59	2020.063	68.521	8/28/25 19:13:59	2020.384	68.562	8/28/25 20:13:59	2020.921	68.562
8/28/25 18:14:59	2020.077	68.525	8/28/25 19:14:59	2020.411	68.563	8/28/25 20:14:59	2020.941	68.566
8/28/25 18:15:59	2020.081	68.527	8/28/25 19:15:59	2020.448	68.569	8/28/25 20:15:59	2020.969	68.567
8/28/25 18:16:59	2020.046	68.521	8/28/25 19:16:59	2020.469	68.569	8/28/25 20:16:59	2020.965	68.564
8/28/25 18:17:59	2020.055	68.532	8/28/25 19:17:59	2020.462	68.566	8/28/25 20:17:59	2020.942	68.566
8/28/25 18:18:59	2020.021	68.526	8/28/25 19:18:59	2020.503	68.573	8/28/25 20:18:59	2020.908	68.569
8/28/25 18:19:59	2020.017	68.529	8/28/25 19:19:59	2020.505	68.569	8/28/25 20:19:59	2020.896	68.569
8/28/25 18:20:59	2020.029	68.530	8/28/25 19:20:59	2020.482	68.561	8/28/25 20:20:59	2020.878	68.563
8/28/25 18:21:59	2020.046	68.529	8/28/25 19:21:59	2020.505	68.565	8/28/25 20:21:59	2020.880	68.566
8/28/25 18:22:59	2020.066	68.527	8/28/25 19:22:59	2020.503	68.561	8/28/25 20:22:59	2020.908	68.571
8/28/25 18:23:59	2020.094	68.529	8/28/25 19:23:59	2020.537	68.568	8/28/25 20:23:59	2020.926	68.571
8/28/25 18:24:59	2020.131	68.536	8/28/25 19:24:59	2020.552	68.565	8/28/25 20:24:59	2020.949	68.573
8/28/25 18:25:59	2020.119	68.529	8/28/25 19:25:59	2020.589	68.573	8/28/25 20:25:59	2020.933	68.564
8/28/25 18:26:59	2020.165	68.534	8/28/25 19:26:59	2020.601	68.568	8/28/25 20:26:59	2020.967	68.573
8/28/25 18:27:59	2020.191	68.538	8/28/25 19:27:59	2020.625	68.574	8/28/25 20:27:59	2020.997	68.575
8/28/25 18:28:59	2020.185	68.534	8/28/25 19:28:59	2020.625	68.565	8/28/25 20:28:59	2021.005	68.573
8/28/25 18:29:59	2020.182	68.535	8/28/25 19:29:59	2020.640	68.561	8/28/25 20:29:59	2021.029	68.578
8/28/25 18:30:59	2020.171	68.535	8/28/25 19:30:59	2020.640	68.566	8/28/25 20:30:59	2021.044	68.576
8/28/25 18:31:59	2020.189	68.539	8/28/25 19:31:59	2020.588	68.559	8/28/25 20:31:59	2021.047	68.574
8/28/25 18:32:59	2020.186	68.533	8/28/25 19:32:59	2020.573	68.561	8/28/25 20:32:59	2021.067	68.574
8/28/25 18:33:59	2020.232	68.540	8/28/25 19:33:59	2020.559	68.564	8/28/25 20:33:59	2021.078	68.574
8/28/25 18:34:59	2020.234	68.533	8/28/25 19:34:59	2020.544	68.560	8/28/25 20:34:59	1980.550	68.570
8/28/25 18:35:59	2020.244	68.533	8/28/25 19:35:59	2020.555	68.561	8/28/25 20:35:59	1954.284	68.582
8/28/25 18:36:59	2020.282	68.543	8/28/25 19:36:59	2020.585	68.565	8/28/25 20:36:59	1941.754	68.603
8/28/25 18:37:59	2020.277	68.542	8/28/25 19:37:59	2020.597	68.561	8/28/25 20:37:59	1933.339	68.628
8/28/25 18:38:59	2020.233	68.539	8/28/25 19:38:59	2020.630	68.565	8/28/25 20:38:59	1926.911	68.651
8/28/25 18:39:59	2020.205	68.541	8/28/25 19:39:59	2020.632	68.556	8/28/25 20:39:59	1921.925	68.685
8/28/25 18:40:59	2020.199	68.542	8/28/25 19:40:59	2020.676	68.564	8/28/25 20:40:59	1917.738	68.712
8/28/25 18:41:59	2020.195	68.544	8/28/25 19:41:59	2020.692	68.561	8/28/25 20:41:59	1914.353	68.736
8/28/25 18:42:59	2020.197	68.546	8/28/25 19:42:59	2020.697	68.556	8/28/25 20:42:59	1911.339	68.752
8/28/25 18:43:59	2020.201	68.546	8/28/25 19:43:59	2020.709	68.557	8/28/25 20:43:59	1908.692	68.784
8/28/25 18:44:59	2020.212	68.544	8/28/25 19:44:59	2020.736	68.560	8/28/25 20:44:59	1906.522	68.802
8/28/25 18:45:59	2020.229	68.545	8/28/25 19:45:59	2020.762	68.562	8/28/25 20:45:59	1904.474	68.819
8/28/25 18:46:59	2020.226	68.544	8/28/25 19:46:59	2020.762	68.561	8/28/25 20:46:59	1902.784	68.837
8/28/25 18:47:59	2020.252	68.551	8/28/25 19:47:59	2020.749	68.562	8/28/25 20:47:59	1901.225	68.873
8/28/25 18:48:59	2020.283	68.553	8/28/25 19:48:59	2020.758	68.564	8/28/25 20:48:59	1899.709	68.883
8/28/25 18:49:59	2020.295	68.552	8/28/25 19:49:59	2020.724	68.555	8/28/25 20:49:59	1898.433	68.911
8/28/25 18:50:59	2020.315	68.549	8/28/25 19:50:59	2020.727	68.563	8/28/25 20:50:59	1897.245	68.937
8/28/25 18:51:59	2020.328	68.553	8/28/25 19:51:59	2020.749	68.567	8/28/25 20:51:59	1896.096	68.958
8/28/25 18:52:59	2020.339	68.549	8/28/25 19:52:59	2020.745	68.565	8/28/25 20:52:59	1895.135	68.978
8/28/25 18:53:59	2020.381	68.556	8/28/25 19:53:59	2020.721	68.561	8/28/25 20:53:59	1894.154	69.004
8/28/25 18:54:59	2020.388	68.555	8/28/25 19:54:59	2020.709	68.562	8/28/25 20:54:59	1893.216	69.035
8/28/25 18:55:59	2020.394	68.556	8/28/25 19:55:59	2020.697	68.561	8/28/25 20:55:59	1892.443	69.047
8/28/25 18:56:59	2020.387	68.554	8/28/25 19:56:59	2020.663	68.557	8/28/25 20:56:59	1891.700	69.068
8/28/25 18:57:59	2020.389	68.551	8/28/25 19:57:59	2020.671	68.562	8/28/25 20:57:59	1891.017	69.093
8/28/25 18:58:59	2020.414	68.560	8/28/25 19:58:59	2020.698	68.566	8/28/25 20:58:59	1890.354	69.117
8/28/25 18:59:59	2020.416	68.554	8/28/25 19:59:59	2020.715	68.561	8/28/25 20:59:59	1889.793	69.131
8/28/25 19:00:59	2020.426	68.556	8/28/25 20:00:59	2020.724	68.557	8/28/25 21:00:59	1889.140	69.148
8/28/25 19:01:59	2020.435	68.558	8/28/25 20:01:59	2020.760	68.560	8/28/25 21:01:59	1888.576	69.168
8/28/25 19:02:59	2020.440	68.560	8/28/25 20:02:59	2020.786	68.561	8/28/25 21:02:59	1888.083	69.185
8/28/25 19:03:59	2020.431	68.560	8/28/25 20:03:59	2020.812	68.563	8/28/25 21:03:59	1887.469	69.206
8/28/25 19:04:59	2020.418	68.563	8/28/25 20:04:59	2020.834	68.565	8/28/25 21:04:59	1887.093	69.236

MEMORY PRESSURE GAUGE DATA
Well 2-12 August 28-29, 2025

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/28/25 21:05:59	1886.640	69.244	8/28/25 22:05:59	1874.689	70.170	8/28/25 23:05:59	1870.446	70.819
8/28/25 21:06:59	1886.203	69.259	8/28/25 22:06:59	1874.575	70.177	8/28/25 23:06:59	1870.417	70.826
8/28/25 21:07:59	1885.770	69.272	8/28/25 22:07:59	1874.476	70.189	8/28/25 23:07:59	1870.363	70.842
8/28/25 21:08:59	1885.300	69.292	8/28/25 22:08:59	1874.374	70.203	8/28/25 23:08:59	1870.271	70.845
8/28/25 21:09:59	1884.986	69.318	8/28/25 22:09:59	1874.217	70.217	8/28/25 23:09:59	1870.224	70.862
8/28/25 21:10:59	1884.590	69.339	8/28/25 22:10:59	1874.156	70.225	8/28/25 23:10:59	1870.192	70.865
8/28/25 21:11:59	1884.264	69.351	8/28/25 22:11:59	1874.097	70.240	8/28/25 23:11:59	1870.174	70.879
8/28/25 21:12:59	1883.952	69.362	8/28/25 22:12:59	1874.005	70.254	8/28/25 23:12:59	1870.111	70.882
8/28/25 21:13:59	1883.618	69.383	8/28/25 22:13:59	1873.924	70.266	8/28/25 23:13:59	1870.051	70.897
8/28/25 21:14:59	1883.273	69.399	8/28/25 22:14:59	1873.805	70.270	8/28/25 23:14:59	1870.008	70.906
8/28/25 21:15:59	1882.994	69.416	8/28/25 22:15:59	1873.745	70.288	8/28/25 23:15:59	1869.953	70.911
8/28/25 21:16:59	1882.737	69.435	8/28/25 22:16:59	1873.656	70.302	8/28/25 23:16:59	1869.944	70.927
8/28/25 21:17:59	1882.353	69.463	8/28/25 22:17:59	1873.576	70.314	8/28/25 23:17:59	1869.901	70.931
8/28/25 21:18:59	1882.113	69.472	8/28/25 22:18:59	1873.512	70.316	8/28/25 23:18:59	1869.832	70.946
8/28/25 21:19:59	1881.915	69.493	8/28/25 22:19:59	1873.405	70.337	8/28/25 23:19:59	1869.778	70.947
8/28/25 21:20:59	1881.635	69.515	8/28/25 22:20:59	1873.329	70.341	8/28/25 23:20:59	1869.733	70.958
8/28/25 21:21:59	1881.377	69.537	8/28/25 22:21:59	1873.206	70.362	8/28/25 23:21:59	1869.704	70.961
8/28/25 21:22:59	1881.095	69.558	8/28/25 22:22:59	1873.175	70.372	8/28/25 23:22:59	1869.657	70.974
8/28/25 21:23:59	1880.963	69.570	8/28/25 22:23:59	1873.068	70.386	8/28/25 23:23:59	1869.615	70.979
8/28/25 21:24:59	1880.691	69.590	8/28/25 22:24:59	1873.018	70.400	8/28/25 23:24:59	1869.600	70.994
8/28/25 21:25:59	1880.467	69.607	8/28/25 22:25:59	1872.951	70.408	8/28/25 23:25:59	1869.528	71.006
8/28/25 21:26:59	1880.273	69.613	8/28/25 22:26:59	1872.843	70.418	8/28/25 23:26:59	1869.493	71.008
8/28/25 21:27:59	1880.000	69.625	8/28/25 22:27:59	1872.814	70.428	8/28/25 23:27:59	1869.475	71.025
8/28/25 21:28:59	1879.862	69.643	8/28/25 22:28:59	1872.691	70.435	8/28/25 23:28:59	1869.416	71.032
8/28/25 21:29:59	1879.710	69.658	8/28/25 22:29:59	1872.641	70.443	8/28/25 23:29:59	1869.365	71.040
8/28/25 21:30:59	1879.374	69.668	8/28/25 22:30:59	1872.540	70.462	8/28/25 23:30:59	1869.344	71.047
8/28/25 21:31:59	1879.242	69.680	8/28/25 22:31:59	1872.520	70.474	8/28/25 23:31:59	1869.281	71.058
8/28/25 21:32:59	1879.106	69.695	8/28/25 22:32:59	1872.446	70.485	8/28/25 23:32:59	1869.247	71.061
8/28/25 21:33:59	1878.841	69.711	8/28/25 22:33:59	1872.394	70.496	8/28/25 23:33:59	1869.160	71.072
8/28/25 21:34:59	1878.698	69.730	8/28/25 22:34:59	1872.298	70.507	8/28/25 23:34:59	1869.142	71.083
8/28/25 21:35:59	1878.513	69.749	8/28/25 22:35:59	1872.176	70.515	8/28/25 23:35:59	1869.060	71.094
8/28/25 21:36:59	1878.380	69.756	8/28/25 22:36:59	1872.146	70.528	8/28/25 23:36:59	1869.046	71.097
8/28/25 21:37:59	1878.156	69.776	8/28/25 22:37:59	1872.069	70.534	8/28/25 23:37:59	1869.038	71.109
8/28/25 21:38:59	1878.037	69.792	8/28/25 22:38:59	1871.995	70.544	8/28/25 23:38:59	1868.978	71.115
8/28/25 21:39:59	1877.903	69.806	8/28/25 22:39:59	1871.896	70.556	8/28/25 23:39:59	1868.947	71.123
8/28/25 21:40:59	1877.675	69.816	8/28/25 22:40:59	1871.883	70.568	8/28/25 23:40:59	1868.908	71.131
8/28/25 21:41:59	1877.589	69.827	8/28/25 22:41:59	1871.823	70.581	8/28/25 23:41:59	1868.861	71.137
8/28/25 21:42:59	1877.423	69.839	8/28/25 22:42:59	1871.776	70.588	8/28/25 23:42:59	1868.841	71.150
8/28/25 21:43:59	1877.346	69.863	8/28/25 22:43:59	1871.671	70.599	8/28/25 23:43:59	1868.806	71.155
8/28/25 21:44:59	1877.092	69.871	8/28/25 22:44:59	1871.622	70.607	8/28/25 23:44:59	1868.777	71.161
8/28/25 21:45:59	1877.033	69.883	8/28/25 22:45:59	1871.580	70.621	8/28/25 23:45:59	1868.738	71.175
8/28/25 21:46:59	1876.889	69.903	8/28/25 22:46:59	1871.493	70.628	8/28/25 23:46:59	1868.706	71.179
8/28/25 21:47:59	1876.729	69.919	8/28/25 22:47:59	1871.458	70.637	8/28/25 23:47:59	1868.671	71.183
8/28/25 21:48:59	1876.663	69.940	8/28/25 22:48:59	1871.417	70.648	8/28/25 23:48:59	1868.627	71.194
8/28/25 21:49:59	1876.409	69.943	8/28/25 22:49:59	1871.265	70.660	8/28/25 23:49:59	1868.579	71.194
8/28/25 21:50:59	1876.391	69.958	8/28/25 22:50:59	1871.255	70.668	8/28/25 23:50:59	1868.518	71.207
8/28/25 21:51:59	1876.201	69.973	8/28/25 22:51:59	1871.177	70.681	8/28/25 23:51:59	1868.483	71.208
8/28/25 21:52:59	1876.075	69.991	8/28/25 22:52:59	1871.167	70.698	8/28/25 23:52:59	1868.481	71.223
8/28/25 21:53:59	1876.007	70.007	8/28/25 22:53:59	1871.098	70.698	8/28/25 23:53:59	1868.452	71.227
8/28/25 21:54:59	1875.875	70.019	8/28/25 22:54:59	1871.055	70.711	8/28/25 23:54:59	1868.407	71.243
8/28/25 21:55:59	1875.791	70.039	8/28/25 22:55:59	1871.000	70.719	8/28/25 23:55:59	1868.370	71.244
8/28/25 21:56:59	1875.586	70.042	8/28/25 22:56:59	1870.943	70.734	8/28/25 23:56:59	1868.346	71.252
8/28/25 21:57:59	1875.509	70.056	8/28/25 22:57:59	1870.898	70.744	8/28/25 23:57:59	1868.296	71.260
8/28/25 21:58:59	1875.409	70.072	8/28/25 22:58:59	1870.794	70.752	8/28/25 23:58:59	1868.249	71.266
8/28/25 21:59:59	1875.242	70.087	8/28/25 22:59:59	1870.761	70.759	8/28/25 23:59:59	1868.229	71.279
8/28/25 22:00:59	1875.173	70.097	8/28/25 23:00:59	1870.735	70.773	8/29/25 00:00:59	1868.203	71.280
8/28/25 22:01:59	1875.049	70.121	8/28/25 23:01:59	1870.692	70.785	8/29/25 00:01:59	1868.185	71.292
8/28/25 22:02:59	1874.948	70.127	8/28/25 23:02:59	1870.621	70.794	8/29/25 00:02:59	1868.141	71.301
8/28/25 22:03:59	1874.858	70.142	8/28/25 23:03:59	1870.600	70.807	8/29/25 00:03:59	1868.057	71.311
8/28/25 22:04:59	1874.738	70.156	8/28/25 23:04:59	1870.508	70.813	8/29/25 00:04:59	1868.064	71.320

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 00:05:59	1868.038	71.328	8/29/25 01:05:59	1866.372	71.719	8/29/25 02:05:59	1865.147	72.027
8/29/25 00:06:59	1868.002	71.330	8/29/25 01:06:59	1866.369	71.729	8/29/25 02:06:59	1865.137	72.032
8/29/25 00:07:59	1867.980	71.340	8/29/25 01:07:59	1866.346	71.731	8/29/25 02:07:59	1865.117	72.035
8/29/25 00:08:59	1867.953	71.348	8/29/25 01:08:59	1866.328	71.737	8/29/25 02:08:59	1865.091	72.036
8/29/25 00:09:59	1867.876	71.355	8/29/25 01:09:59	1866.307	71.743	8/29/25 02:09:59	1865.079	72.046
8/29/25 00:10:59	1867.859	71.359	8/29/25 01:10:59	1866.246	71.743	8/29/25 02:10:59	1865.059	72.048
8/29/25 00:11:59	1867.843	71.364	8/29/25 01:11:59	1866.224	71.750	8/29/25 02:11:59	1865.041	72.049
8/29/25 00:12:59	1867.826	71.378	8/29/25 01:12:59	1866.214	71.758	8/29/25 02:12:59	1865.026	72.058
8/29/25 00:13:59	1867.791	71.383	8/29/25 01:13:59	1866.205	71.764	8/29/25 02:13:59	1865.010	72.066
8/29/25 00:14:59	1867.776	71.396	8/29/25 01:14:59	1866.168	71.765	8/29/25 02:14:59	1865.000	72.069
8/29/25 00:15:59	1867.745	71.398	8/29/25 01:15:59	1866.166	71.776	8/29/25 02:15:59	1864.975	72.072
8/29/25 00:16:59	1867.679	71.402	8/29/25 01:16:59	1866.133	71.783	8/29/25 02:16:59	1864.943	72.076
8/29/25 00:17:59	1867.651	71.414	8/29/25 01:17:59	1866.101	71.782	8/29/25 02:17:59	1864.930	72.081
8/29/25 00:18:59	1867.619	71.418	8/29/25 01:18:59	1866.105	71.794	8/29/25 02:18:59	1864.899	72.081
8/29/25 00:19:59	1867.611	71.429	8/29/25 01:19:59	1866.068	71.796	8/29/25 02:19:59	1864.904	72.093
8/29/25 00:20:59	1867.546	71.435	8/29/25 01:20:59	1866.048	71.803	8/29/25 02:20:59	1864.875	72.087
8/29/25 00:21:59	1867.524	71.441	8/29/25 01:21:59	1866.031	71.815	8/29/25 02:21:59	1864.873	72.099
8/29/25 00:22:59	1867.497	71.447	8/29/25 01:22:59	1866.007	71.812	8/29/25 02:22:59	1864.847	72.100
8/29/25 00:23:59	1867.484	71.452	8/29/25 01:23:59	1865.986	71.817	8/29/25 02:23:59	1864.826	72.107
8/29/25 00:24:59	1867.457	71.462	8/29/25 01:24:59	1865.935	71.823	8/29/25 02:24:59	1864.817	72.112
8/29/25 00:25:59	1867.439	71.470	8/29/25 01:25:59	1865.918	71.829	8/29/25 02:25:59	1864.794	72.111
8/29/25 00:26:59	1867.393	71.475	8/29/25 01:26:59	1865.931	71.842	8/29/25 02:26:59	1864.796	72.125
8/29/25 00:27:59	1867.366	71.481	8/29/25 01:27:59	1865.919	71.843	8/29/25 02:27:59	1864.771	72.123
8/29/25 00:28:59	1867.345	71.488	8/29/25 01:28:59	1865.887	71.844	8/29/25 02:28:59	1864.756	72.127
8/29/25 00:29:59	1867.321	71.495	8/29/25 01:29:59	1865.859	71.850	8/29/25 02:29:59	1864.739	72.132
8/29/25 00:30:59	1867.283	71.502	8/29/25 01:30:59	1865.851	71.860	8/29/25 02:30:59	1864.712	72.134
8/29/25 00:31:59	1867.259	71.508	8/29/25 01:31:59	1865.809	71.860	8/29/25 02:31:59	1864.691	72.141
8/29/25 00:32:59	1867.233	71.516	8/29/25 01:32:59	1865.772	71.867	8/29/25 02:32:59	1864.681	72.144
8/29/25 00:33:59	1867.174	71.519	8/29/25 01:33:59	1865.771	71.872	8/29/25 02:33:59	1864.676	72.149
8/29/25 00:34:59	1867.173	71.535	8/29/25 01:34:59	1865.735	71.878	8/29/25 02:34:59	1864.663	72.154
8/29/25 00:35:59	1867.144	71.536	8/29/25 01:35:59	1865.728	71.883	8/29/25 02:35:59	1864.629	72.155
8/29/25 00:36:59	1867.128	71.543	8/29/25 01:36:59	1865.718	71.888	8/29/25 02:36:59	1864.618	72.158
8/29/25 00:37:59	1867.086	71.547	8/29/25 01:37:59	1865.696	71.893	8/29/25 02:37:59	1864.608	72.164
8/29/25 00:38:59	1867.077	71.557	8/29/25 01:38:59	1865.664	71.897	8/29/25 02:38:59	1864.566	72.160
8/29/25 00:39:59	1867.046	71.563	8/29/25 01:39:59	1865.648	71.902	8/29/25 02:39:59	1864.568	72.172
8/29/25 00:40:59	1867.000	71.563	8/29/25 01:40:59	1865.624	71.904	8/29/25 02:40:59	1864.564	72.177
8/29/25 00:41:59	1866.992	71.577	8/29/25 01:41:59	1865.597	71.909	8/29/25 02:41:59	1864.523	72.175
8/29/25 00:42:59	1866.974	71.587	8/29/25 01:42:59	1865.566	71.911	8/29/25 02:42:59	1864.521	72.182
8/29/25 00:43:59	1866.939	71.591	8/29/25 01:43:59	1865.569	71.921	8/29/25 02:43:59	1864.522	72.191
8/29/25 00:44:59	1866.886	71.589	8/29/25 01:44:59	1865.555	71.926	8/29/25 02:44:59	1864.477	72.186
8/29/25 00:45:59	1866.865	71.595	8/29/25 01:45:59	1865.543	71.935	8/29/25 02:45:59	1864.479	72.194
8/29/25 00:46:59	1866.837	71.604	8/29/25 01:46:59	1865.515	71.934	8/29/25 02:46:59	1864.460	72.203
8/29/25 00:47:59	1866.815	71.612	8/29/25 01:47:59	1865.495	71.944	8/29/25 02:47:59	1864.454	72.208
8/29/25 00:48:59	1866.797	71.617	8/29/25 01:48:59	1865.468	71.947	8/29/25 02:48:59	1864.439	72.207
8/29/25 00:49:59	1866.778	71.629	8/29/25 01:49:59	1865.450	71.952	8/29/25 02:49:59	1864.414	72.212
8/29/25 00:50:59	1866.745	71.630	8/29/25 01:50:59	1865.455	71.957	8/29/25 02:50:59	1864.398	72.216
8/29/25 00:51:59	1866.712	71.635	8/29/25 01:51:59	1865.432	71.962	8/29/25 02:51:59	1864.390	72.219
8/29/25 00:52:59	1866.710	71.647	8/29/25 01:52:59	1865.398	71.961	8/29/25 02:52:59	1864.370	72.218
8/29/25 00:53:59	1866.669	71.647	8/29/25 01:53:59	1865.384	71.968	8/29/25 02:53:59	1864.364	72.226
8/29/25 00:54:59	1866.644	71.656	8/29/25 01:54:59	1865.357	71.978	8/29/25 02:54:59	1864.345	72.230
8/29/25 00:55:59	1866.620	71.658	8/29/25 01:55:59	1865.331	71.982	8/29/25 02:55:59	1864.348	72.240
8/29/25 00:56:59	1866.613	71.671	8/29/25 01:56:59	1865.299	71.984	8/29/25 02:56:59	1864.314	72.238
8/29/25 00:57:59	1866.584	71.674	8/29/25 01:57:59	1865.299	71.997	8/29/25 02:57:59	1864.313	72.247
8/29/25 00:58:59	1866.568	71.678	8/29/25 01:58:59	1865.282	71.995	8/29/25 02:58:59	1864.286	72.249
8/29/25 00:59:59	1866.542	71.686	8/29/25 01:59:59	1865.257	71.993	8/29/25 02:59:59	1864.291	72.253
8/29/25 01:00:59	1866.526	71.694	8/29/25 02:00:59	1865.256	72.005	8/29/25 03:00:59	1864.255	72.254
8/29/25 01:01:59	1866.474	71.691	8/29/25 02:01:59	1865.201	72.008	8/29/25 03:01:59	1864.245	72.256
8/29/25 01:02:59	1866.453	71.698	8/29/25 02:02:59	1865.199	72.016	8/29/25 03:02:59	1864.210	72.259
8/29/25 01:03:59	1866.440	71.710	8/29/25 02:03:59	1865.177	72.013	8/29/25 03:03:59	1864.203	72.267
8/29/25 01:04:59	1866.413	71.712	8/29/25 02:04:59	1865.166	72.023	8/29/25 03:04:59	1864.198	72.268

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 03:05:59	1864.203	72.278	8/29/25 04:05:59	1863.386	72.471	8/29/25 05:05:59	1862.745	72.633
8/29/25 03:06:59	1864.191	72.281	8/29/25 04:06:59	1863.380	72.475	8/29/25 05:06:59	1862.736	72.639
8/29/25 03:07:59	1864.161	72.279	8/29/25 04:07:59	1863.366	72.478	8/29/25 05:07:59	1862.719	72.638
8/29/25 03:08:59	1864.134	72.288	8/29/25 04:08:59	1863.345	72.478	8/29/25 05:08:59	1862.706	72.641
8/29/25 03:09:59	1864.109	72.288	8/29/25 04:09:59	1863.342	72.487	8/29/25 05:09:59	1862.696	72.646
8/29/25 03:10:59	1864.096	72.290	8/29/25 04:10:59	1863.331	72.483	8/29/25 05:10:59	1862.697	72.652
8/29/25 03:11:59	1864.077	72.296	8/29/25 04:11:59	1863.318	72.486	8/29/25 05:11:59	1862.672	72.648
8/29/25 03:12:59	1864.073	72.300	8/29/25 04:12:59	1863.321	72.498	8/29/25 05:12:59	1862.656	72.652
8/29/25 03:13:59	1864.062	72.300	8/29/25 04:13:59	1863.288	72.492	8/29/25 05:13:59	1862.650	72.653
8/29/25 03:14:59	1864.058	72.306	8/29/25 04:14:59	1863.286	72.497	8/29/25 05:14:59	1862.639	72.655
8/29/25 03:15:59	1864.048	72.312	8/29/25 04:15:59	1863.271	72.497	8/29/25 05:15:59	1862.635	72.659
8/29/25 03:16:59	1864.027	72.312	8/29/25 04:16:59	1863.273	72.506	8/29/25 05:16:59	1862.634	72.662
8/29/25 03:17:59	1864.019	72.319	8/29/25 04:17:59	1863.250	72.512	8/29/25 05:17:59	1862.620	72.663
8/29/25 03:18:59	1863.989	72.318	8/29/25 04:18:59	1863.244	72.514	8/29/25 05:18:59	1862.613	72.667
8/29/25 03:19:59	1863.976	72.321	8/29/25 04:19:59	1863.219	72.514	8/29/25 05:19:59	1862.588	72.669
8/29/25 03:20:59	1863.955	72.321	8/29/25 04:20:59	1863.205	72.515	8/29/25 05:20:59	1862.567	72.669
8/29/25 03:21:59	1863.958	72.333	8/29/25 04:21:59	1863.209	72.523	8/29/25 05:21:59	1862.588	72.678
8/29/25 03:22:59	1863.944	72.336	8/29/25 04:22:59	1863.193	72.521	8/29/25 05:22:59	1862.569	72.673
8/29/25 03:23:59	1863.936	72.336	8/29/25 04:23:59	1863.197	72.528	8/29/25 05:23:59	1862.558	72.679
8/29/25 03:24:59	1863.918	72.343	8/29/25 04:24:59	1863.179	72.528	8/29/25 05:24:59	1862.536	72.677
8/29/25 03:25:59	1863.882	72.338	8/29/25 04:25:59	1863.167	72.535	8/29/25 05:25:59	1862.536	72.684
8/29/25 03:26:59	1863.885	72.344	8/29/25 04:26:59	1863.141	72.532	8/29/25 05:26:59	1862.536	72.689
8/29/25 03:27:59	1863.876	72.351	8/29/25 04:27:59	1863.124	72.534	8/29/25 05:27:59	1862.531	72.693
8/29/25 03:28:59	1863.858	72.360	8/29/25 04:28:59	1863.112	72.537	8/29/25 05:28:59	1862.499	72.689
8/29/25 03:29:59	1863.839	72.359	8/29/25 04:29:59	1863.104	72.541	8/29/25 05:29:59	1862.489	72.690
8/29/25 03:30:59	1863.829	72.359	8/29/25 04:30:59	1863.104	72.545	8/29/25 05:30:59	1862.500	72.699
8/29/25 03:31:59	1863.803	72.363	8/29/25 04:31:59	1863.108	72.554	8/29/25 05:31:59	1862.496	72.701
8/29/25 03:32:59	1863.786	72.364	8/29/25 04:32:59	1863.080	72.550	8/29/25 05:32:59	1862.468	72.695
8/29/25 03:33:59	1863.783	72.370	8/29/25 04:33:59	1863.071	72.556	8/29/25 05:33:59	1862.460	72.699
8/29/25 03:34:59	1863.773	72.372	8/29/25 04:34:59	1863.070	72.555	8/29/25 05:34:59	1862.453	72.703
8/29/25 03:35:59	1863.767	72.379	8/29/25 04:35:59	1863.060	72.562	8/29/25 05:35:59	1862.431	72.704
8/29/25 03:36:59	1863.757	72.386	8/29/25 04:36:59	1863.053	72.560	8/29/25 05:36:59	1862.422	72.706
8/29/25 03:37:59	1863.732	72.387	8/29/25 04:37:59	1863.042	72.565	8/29/25 05:37:59	1862.394	72.706
8/29/25 03:38:59	1863.701	72.382	8/29/25 04:38:59	1863.017	72.564	8/29/25 05:38:59	1862.410	72.713
8/29/25 03:39:59	1863.709	72.391	8/29/25 04:39:59	1863.012	72.569	8/29/25 05:39:59	1862.414	72.715
8/29/25 03:40:59	1863.699	72.396	8/29/25 04:40:59	1862.991	72.569	8/29/25 05:40:59	1862.392	72.714
8/29/25 03:41:59	1863.684	72.397	8/29/25 04:41:59	1862.991	72.578	8/29/25 05:41:59	1862.405	72.720
8/29/25 03:42:59	1863.679	72.403	8/29/25 04:42:59	1862.976	72.578	8/29/25 05:42:59	1862.383	72.723
8/29/25 03:43:59	1863.661	72.401	8/29/25 04:43:59	1862.959	72.578	8/29/25 05:43:59	1862.374	72.724
8/29/25 03:44:59	1863.644	72.409	8/29/25 04:44:59	1862.947	72.577	8/29/25 05:44:59	1862.348	72.722
8/29/25 03:45:59	1863.647	72.411	8/29/25 04:45:59	1862.952	72.588	8/29/25 05:45:59	1862.354	72.730
8/29/25 03:46:59	1863.643	72.415	8/29/25 04:46:59	1862.939	72.586	8/29/25 05:46:59	1862.349	72.735
8/29/25 03:47:59	1863.613	72.418	8/29/25 04:47:59	1862.929	72.588	8/29/25 05:47:59	1862.340	72.735
8/29/25 03:48:59	1863.616	72.424	8/29/25 04:48:59	1862.919	72.595	8/29/25 05:48:59	1862.322	72.739
8/29/25 03:49:59	1863.585	72.427	8/29/25 04:49:59	1862.888	72.590	8/29/25 05:49:59	1862.305	72.737
8/29/25 03:50:59	1863.570	72.426	8/29/25 04:50:59	1862.885	72.601	8/29/25 05:50:59	1862.280	72.735
8/29/25 03:51:59	1863.566	72.425	8/29/25 04:51:59	1862.868	72.597	8/29/25 05:51:59	1862.289	72.745
8/29/25 03:52:59	1863.558	72.437	8/29/25 04:52:59	1862.874	72.604	8/29/25 05:52:59	1862.281	72.745
8/29/25 03:53:59	1863.539	72.435	8/29/25 04:53:59	1862.867	72.606	8/29/25 05:53:59	1862.274	72.744
8/29/25 03:54:59	1863.515	72.438	8/29/25 04:54:59	1862.868	72.616	8/29/25 05:54:59	1862.275	72.751
8/29/25 03:55:59	1863.523	72.446	8/29/25 04:55:59	1862.820	72.607	8/29/25 05:55:59	1862.239	72.742
8/29/25 03:56:59	1863.485	72.444	8/29/25 04:56:59	1862.838	72.619	8/29/25 05:56:59	1862.236	72.748
8/29/25 03:57:59	1863.479	72.448	8/29/25 04:57:59	1862.811	72.614	8/29/25 05:57:59	1862.239	72.755
8/29/25 03:58:59	1863.460	72.447	8/29/25 04:58:59	1862.817	72.620	8/29/25 05:58:59	1862.212	72.754
8/29/25 03:59:59	1863.461	72.453	8/29/25 04:59:59	1862.799	72.621	8/29/25 05:59:59	1862.218	72.760
8/29/25 04:00:59	1863.446	72.457	8/29/25 05:00:59	1862.778	72.621	8/29/25 06:00:59	1862.230	72.768
8/29/25 04:01:59	1863.456	72.462	8/29/25 05:01:59	1862.755	72.624	8/29/25 06:01:59	1862.216	72.763
8/29/25 04:02:59	1863.431	72.464	8/29/25 05:02:59	1862.749	72.626	8/29/25 06:02:59	1862.199	72.763
8/29/25 04:03:59	1863.407	72.460	8/29/25 05:03:59	1862.760	72.631	8/29/25 06:03:59	1862.187	72.765
8/29/25 04:04:59	1863.404	72.466	8/29/25 05:04:59	1862.730	72.627	8/29/25 06:04:59	1862.182	72.769

MEMORY PRESSURE GAUGE DATA
Well 2-12 August 28-29, 2025

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 06:05:59	1862.179	72.766	8/29/25 07:05:59	1861.695	72.885	8/29/25 08:05:59	1861.254	72.977
8/29/25 06:06:59	1862.177	72.771	8/29/25 07:06:59	1861.688	72.889	8/29/25 08:06:59	1861.255	72.976
8/29/25 06:07:59	1862.163	72.772	8/29/25 07:07:59	1861.681	72.888	8/29/25 08:07:59	1861.222	72.976
8/29/25 06:08:59	1862.144	72.775	8/29/25 07:08:59	1861.667	72.889	8/29/25 08:08:59	1861.235	72.980
8/29/25 06:09:59	1862.155	72.783	8/29/25 07:09:59	1861.658	72.885	8/29/25 08:09:59	1861.229	72.979
8/29/25 06:10:59	1862.128	72.780	8/29/25 07:10:59	1861.649	72.890	8/29/25 08:10:59	1861.234	72.983
8/29/25 06:11:59	1862.127	72.785	8/29/25 07:11:59	1861.635	72.889	8/29/25 08:11:59	1861.237	72.988
8/29/25 06:12:59	1862.109	72.783	8/29/25 07:12:59	1861.631	72.895	8/29/25 08:12:59	1861.208	72.986
8/29/25 06:13:59	1862.106	72.787	8/29/25 07:13:59	1861.624	72.895	8/29/25 08:13:59	1861.206	72.987
8/29/25 06:14:59	1862.081	72.788	8/29/25 07:14:59	1861.616	72.897	8/29/25 08:14:59	1861.203	72.984
8/29/25 06:15:59	1862.067	72.787	8/29/25 07:15:59	1861.622	72.898	8/29/25 08:15:59	1861.204	72.990
8/29/25 06:16:59	1862.072	72.793	8/29/25 07:16:59	1861.619	72.904	8/29/25 08:16:59	1861.176	72.988
8/29/25 06:17:59	1862.064	72.795	8/29/25 07:17:59	1861.592	72.901	8/29/25 08:17:59	1861.174	72.991
8/29/25 06:18:59	1862.066	72.800	8/29/25 07:18:59	1861.581	72.903	8/29/25 08:18:59	1861.178	72.993
8/29/25 06:19:59	1862.055	72.797	8/29/25 07:19:59	1861.589	72.911	8/29/25 08:19:59	1861.163	72.995
8/29/25 06:20:59	1862.058	72.805	8/29/25 07:20:59	1861.585	72.909	8/29/25 08:20:59	1861.159	73.001
8/29/25 06:21:59	1862.044	72.801	8/29/25 07:21:59	1861.574	72.908	8/29/25 08:21:59	1861.143	72.997
8/29/25 06:22:59	1862.033	72.801	8/29/25 07:22:59	1861.569	72.909	8/29/25 08:22:59	1861.142	72.999
8/29/25 06:23:59	1862.024	72.806	8/29/25 07:23:59	1861.565	72.913	8/29/25 08:23:59	1861.129	72.995
8/29/25 06:24:59	1862.008	72.805	8/29/25 07:24:59	1861.563	72.915	8/29/25 08:24:59	1861.127	72.997
8/29/25 06:25:59	1862.003	72.806	8/29/25 07:25:59	1861.548	72.912	8/29/25 08:25:59	1861.134	73.004
8/29/25 06:26:59	1861.992	72.810	8/29/25 07:26:59	1861.542	72.919	8/29/25 08:26:59	1861.143	73.008
8/29/25 06:27:59	1861.988	72.820	8/29/25 07:27:59	1861.544	72.921	8/29/25 08:27:59	1861.119	73.003
8/29/25 06:28:59	1861.972	72.816	8/29/25 07:28:59	1861.520	72.918	8/29/25 08:28:59	1861.125	73.009
8/29/25 06:29:59	1861.970	72.819	8/29/25 07:29:59	1861.513	72.919	8/29/25 08:29:59	1861.119	73.010
8/29/25 06:30:59	1861.952	72.818	8/29/25 07:30:59	1861.518	72.923	8/29/25 08:30:59	1861.091	73.007
8/29/25 06:31:59	1861.953	72.820	8/29/25 07:31:59	1861.496	72.924	8/29/25 08:31:59	1861.096	73.013
8/29/25 06:32:59	1861.939	72.818	8/29/25 07:32:59	1861.482	72.921	8/29/25 08:32:59	1861.068	73.011
8/29/25 06:33:59	1861.949	72.822	8/29/25 07:33:59	1861.477	72.932	8/29/25 08:33:59	1861.083	73.020
8/29/25 06:34:59	1861.926	72.822	8/29/25 07:34:59	1861.476	72.929	8/29/25 08:34:59	1861.061	73.015
8/29/25 06:35:59	1861.903	72.818	8/29/25 07:35:59	1861.466	72.934	8/29/25 08:35:59	1861.063	73.018
8/29/25 06:36:59	1861.909	72.828	8/29/25 07:36:59	1861.455	72.933	8/29/25 08:36:59	1861.065	73.023
8/29/25 06:37:59	1861.925	72.835	8/29/25 07:37:59	1861.463	72.936	8/29/25 08:37:59	1861.061	73.023
8/29/25 06:38:59	1861.907	72.832	8/29/25 07:38:59	1861.467	72.934	8/29/25 08:38:59	1861.039	73.018
8/29/25 06:39:59	1861.883	72.833	8/29/25 07:39:59	1861.455	72.938	8/29/25 08:39:59	1861.014	73.014
8/29/25 06:40:59	1861.891	72.844	8/29/25 07:40:59	1861.425	72.934	8/29/25 08:40:59	1861.031	73.022
8/29/25 06:41:59	1861.865	72.837	8/29/25 07:41:59	1861.420	72.939	8/29/25 08:41:59	1861.015	73.022
8/29/25 06:42:59	1861.859	72.840	8/29/25 07:42:59	1861.431	72.946	8/29/25 08:42:59	1861.011	73.022
8/29/25 06:43:59	1861.836	72.845	8/29/25 07:43:59	1861.414	72.947	8/29/25 08:43:59	1861.006	73.029
8/29/25 06:44:59	1861.854	72.845	8/29/25 07:44:59	1861.388	72.941	8/29/25 08:44:59	1860.998	73.027
8/29/25 06:45:59	1861.820	72.839	8/29/25 07:45:59	1861.383	72.948	8/29/25 08:45:59	1860.987	73.026
8/29/25 06:46:59	1861.823	72.844	8/29/25 07:46:59	1861.383	72.946	8/29/25 08:46:59	1860.989	73.029
8/29/25 06:47:59	1861.817	72.850	8/29/25 07:47:59	1861.376	72.946	8/29/25 08:47:59	1860.983	73.028
8/29/25 06:48:59	1861.811	72.855	8/29/25 07:48:59	1861.375	72.952	8/29/25 08:48:59	1861.001	73.034
8/29/25 06:49:59	1861.810	72.858	8/29/25 07:49:59	1861.366	72.951	8/29/25 08:49:59	1860.997	73.037
8/29/25 06:50:59	1861.795	72.853	8/29/25 07:50:59	1861.356	72.954	8/29/25 08:50:59	1860.993	73.039
8/29/25 06:51:59	1861.781	72.853	8/29/25 07:51:59	1861.352	72.958	8/29/25 08:51:59	1860.964	73.038
8/29/25 06:52:59	1861.782	72.858	8/29/25 07:52:59	1861.353	72.958	8/29/25 08:52:59	1860.965	73.038
8/29/25 06:53:59	1861.773	72.856	8/29/25 07:53:59	1861.345	72.956	8/29/25 08:53:59	1860.958	73.040
8/29/25 06:54:59	1861.762	72.860	8/29/25 07:54:59	1861.334	72.959	8/29/25 08:54:59	1860.946	73.046
8/29/25 06:55:59	1861.788	72.870	8/29/25 07:55:59	1861.327	72.961	8/29/25 08:55:59	1860.934	73.044
8/29/25 06:56:59	1861.767	72.868	8/29/25 07:56:59	1861.317	72.962	8/29/25 08:56:59	1860.935	73.050
8/29/25 06:57:59	1861.754	72.872	8/29/25 07:57:59	1861.340	72.969	8/29/25 08:57:59	1860.922	73.048
8/29/25 06:58:59	1861.730	72.864	8/29/25 07:58:59	1861.316	72.965	8/29/25 08:58:59	1860.922	73.048
8/29/25 06:59:59	1861.750	72.873	8/29/25 07:59:59	1861.301	72.968	8/29/25 08:59:59	1860.925	73.051
8/29/25 07:00:59	1861.728	72.871	8/29/25 08:00:59	1861.284	72.968	8/29/25 09:00:59	1860.921	73.060
8/29/25 07:01:59	1861.726	72.877	8/29/25 08:01:59	1861.291	72.971	8/29/25 09:01:59	1860.897	73.048
8/29/25 07:02:59	1861.723	72.880	8/29/25 08:02:59	1861.276	72.971	8/29/25 09:02:59	1860.891	73.049
8/29/25 07:03:59	1861.708	72.884	8/29/25 08:03:59	1861.258	72.969	8/29/25 09:03:59	1860.876	73.051
8/29/25 07:04:59	1861.701	72.881	8/29/25 08:04:59	1861.273	72.977	8/29/25 09:04:59	1860.872	73.057

MEMORY PRESSURE GAUGE DATA
Well 2-12 August 28-29, 2025

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 09:05:59	1860.881	73.062	8/29/25 10:05:59	1860.507	73.120	8/29/25 11:05:59	1860.210	73.184
8/29/25 09:06:59	1860.880	73.060	8/29/25 10:06:59	1860.521	73.124	8/29/25 11:06:59	1860.188	73.176
8/29/25 09:07:59	1860.869	73.059	8/29/25 10:07:59	1860.522	73.128	8/29/25 11:07:59	1860.214	73.185
8/29/25 09:08:59	1860.872	73.060	8/29/25 10:08:59	1860.529	73.129	8/29/25 11:08:59	1860.201	73.181
8/29/25 09:09:59	1860.860	73.062	8/29/25 10:09:59	1860.500	73.125	8/29/25 11:09:59	1860.202	73.184
8/29/25 09:10:59	1860.857	73.066	8/29/25 10:10:59	1860.495	73.125	8/29/25 11:10:59	1860.195	73.188
8/29/25 09:11:59	1860.843	73.058	8/29/25 10:11:59	1860.484	73.129	8/29/25 11:11:59	1860.178	73.184
8/29/25 09:12:59	1860.841	73.061	8/29/25 10:12:59	1860.488	73.131	8/29/25 11:12:59	1860.206	73.196
8/29/25 09:13:59	1860.844	73.069	8/29/25 10:13:59	1860.467	73.127	8/29/25 11:13:59	1860.172	73.188
8/29/25 09:14:59	1860.818	73.065	8/29/25 10:14:59	1860.479	73.134	8/29/25 11:14:59	1860.158	73.189
8/29/25 09:15:59	1860.832	73.068	8/29/25 10:15:59	1860.450	73.131	8/29/25 11:15:59	1860.146	73.193
8/29/25 09:16:59	1860.810	73.065	8/29/25 10:16:59	1860.441	73.132	8/29/25 11:16:59	1860.157	73.189
8/29/25 09:17:59	1860.798	73.067	8/29/25 10:17:59	1860.467	73.141	8/29/25 11:17:59	1860.140	73.193
8/29/25 09:18:59	1860.799	73.073	8/29/25 10:18:59	1860.455	73.136	8/29/25 11:18:59	1860.146	73.193
8/29/25 09:19:59	1860.786	73.073	8/29/25 10:19:59	1860.458	73.139	8/29/25 11:19:59	1860.144	73.200
8/29/25 09:20:59	1860.781	73.073	8/29/25 10:20:59	1860.427	73.137	8/29/25 11:20:59	1860.149	73.196
8/29/25 09:21:59	1860.789	73.074	8/29/25 10:21:59	1860.434	73.141	8/29/25 11:21:59	1860.132	73.194
8/29/25 09:22:59	1860.777	73.076	8/29/25 10:22:59	1860.436	73.140	8/29/25 11:22:59	1860.112	73.196
8/29/25 09:23:59	1860.759	73.079	8/29/25 10:23:59	1860.428	73.140	8/29/25 11:23:59	1860.116	73.203
8/29/25 09:24:59	1860.756	73.079	8/29/25 10:24:59	1860.436	73.144	8/29/25 11:24:59	1860.098	73.199
8/29/25 09:25:59	1860.747	73.077	8/29/25 10:25:59	1860.404	73.141	8/29/25 11:25:59	1860.107	73.201
8/29/25 09:26:59	1860.752	73.083	8/29/25 10:26:59	1860.393	73.138	8/29/25 11:26:59	1860.107	73.201
8/29/25 09:27:59	1860.744	73.079	8/29/25 10:27:59	1860.403	73.149	8/29/25 11:27:59	1860.101	73.200
8/29/25 09:28:59	1860.751	73.084	8/29/25 10:28:59	1860.385	73.143	8/29/25 11:28:59	1860.094	73.204
8/29/25 09:29:59	1860.742	73.086	8/29/25 10:29:59	1860.371	73.146	8/29/25 11:29:59	1860.103	73.207
8/29/25 09:30:59	1860.731	73.085	8/29/25 10:30:59	1860.380	73.148	8/29/25 11:30:59	1860.082	73.205
8/29/25 09:31:59	1860.712	73.089	8/29/25 10:31:59	1860.399	73.153	8/29/25 11:31:59	1860.091	73.209
8/29/25 09:32:59	1860.690	73.081	8/29/25 10:32:59	1860.381	73.152	8/29/25 11:32:59	1860.064	73.206
8/29/25 09:33:59	1860.707	73.090	8/29/25 10:33:59	1860.373	73.156	8/29/25 11:33:59	1860.064	73.208
8/29/25 09:34:59	1860.696	73.084	8/29/25 10:34:59	1860.365	73.152	8/29/25 11:34:59	1860.062	73.205
8/29/25 09:35:59	1860.704	73.095	8/29/25 10:35:59	1860.359	73.154	8/29/25 11:35:59	1860.066	73.210
8/29/25 09:36:59	1860.704	73.096	8/29/25 10:36:59	1860.366	73.153	8/29/25 11:36:59	1860.056	73.211
8/29/25 09:37:59	1860.686	73.092	8/29/25 10:37:59	1860.363	73.161	8/29/25 11:37:59	1860.049	73.215
8/29/25 09:38:59	1860.659	73.089	8/29/25 10:38:59	1860.355	73.155	8/29/25 11:38:59	1860.034	73.207
8/29/25 09:39:59	1860.649	73.086	8/29/25 10:39:59	1860.352	73.156	8/29/25 11:39:59	1860.042	73.216
8/29/25 09:40:59	1860.671	73.096	8/29/25 10:40:59	1860.341	73.158	8/29/25 11:40:59	1860.044	73.217
8/29/25 09:41:59	1860.674	73.101	8/29/25 10:41:59	1860.347	73.161	8/29/25 11:41:59	1860.024	73.213
8/29/25 09:42:59	1860.660	73.098	8/29/25 10:42:59	1860.351	73.164	8/29/25 11:42:59	1860.022	73.216
8/29/25 09:43:59	1860.660	73.104	8/29/25 10:43:59	1860.318	73.161	8/29/25 11:43:59	1860.026	73.216
8/29/25 09:44:59	1860.642	73.101	8/29/25 10:44:59	1860.321	73.162	8/29/25 11:44:59	1860.012	73.221
8/29/25 09:45:59	1860.630	73.101	8/29/25 10:45:59	1860.316	73.162	8/29/25 11:45:59	1860.005	73.223
8/29/25 09:46:59	1860.633	73.107	8/29/25 10:46:59	1860.331	73.170	8/29/25 11:46:59	1860.002	73.220
8/29/25 09:47:59	1860.619	73.106	8/29/25 10:47:59	1860.331	73.174	8/29/25 11:47:59	1859.997	73.221
8/29/25 09:48:59	1860.626	73.110	8/29/25 10:48:59	1860.307	73.165	8/29/25 11:48:59	1860.002	73.227
8/29/25 09:49:59	1860.621	73.108	8/29/25 10:49:59	1860.311	73.172	8/29/25 11:49:59	1859.985	73.225
8/29/25 09:50:59	1860.606	73.106	8/29/25 10:50:59	1860.281	73.168	8/29/25 11:50:59	1859.981	73.224
8/29/25 09:51:59	1860.611	73.109	8/29/25 10:51:59	1860.260	73.162	8/29/25 11:51:59	1859.971	73.221
8/29/25 09:52:59	1860.606	73.111	8/29/25 10:52:59	1860.277	73.172	8/29/25 11:52:59	1859.985	73.225
8/29/25 09:53:59	1860.587	73.110	8/29/25 10:53:59	1860.266	73.170	8/29/25 11:53:59	1859.975	73.228
8/29/25 09:54:59	1860.579	73.108	8/29/25 10:54:59	1860.260	73.166	8/29/25 11:54:59	1859.967	73.224
8/29/25 09:55:59	1860.571	73.108	8/29/25 10:55:59	1860.264	73.175	8/29/25 11:55:59	1859.969	73.231
8/29/25 09:56:59	1860.568	73.112	8/29/25 10:56:59	1860.267	73.180	8/29/25 11:56:59	1859.963	73.230
8/29/25 09:57:59	1860.581	73.118	8/29/25 10:57:59	1860.253	73.177	8/29/25 11:57:59	1859.949	73.227
8/29/25 09:58:59	1860.598	73.120	8/29/25 10:58:59	1860.257	73.179	8/29/25 11:58:59	1859.945	73.229
8/29/25 09:59:59	1860.579	73.115	8/29/25 10:59:59	1860.232	73.173	8/29/25 11:59:59	1859.930	73.232
8/29/25 10:00:59	1860.569	73.120	8/29/25 11:00:59	1860.237	73.178	8/29/25 12:00:59	1859.921	73.229
8/29/25 10:01:59	1860.566	73.120	8/29/25 11:01:59	1860.233	73.181	8/29/25 12:01:59	1859.938	73.233
8/29/25 10:02:59	1860.551	73.121	8/29/25 11:02:59	1860.224	73.177	8/29/25 12:02:59	1859.935	73.228
8/29/25 10:03:59	1860.553	73.122	8/29/25 11:03:59	1860.231	73.178	8/29/25 12:03:59	1859.935	73.234
8/29/25 10:04:59	1860.544	73.127	8/29/25 11:04:59	1860.213	73.181	8/29/25 12:04:59	1859.913	73.233

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 12:05:59	1859.926	73.235	8/29/25 13:05:59	1859.636	73.281	8/29/25 14:05:59	1859.397	73.323
8/29/25 12:06:59	1859.927	73.241	8/29/25 13:06:59	1859.647	73.284	8/29/25 14:06:59	1859.398	73.324
8/29/25 12:07:59	1859.903	73.234	8/29/25 13:07:59	1859.644	73.288	8/29/25 14:07:59	1859.386	73.320
8/29/25 12:08:59	1859.921	73.244	8/29/25 13:08:59	1859.638	73.285	8/29/25 14:08:59	1859.368	73.325
8/29/25 12:09:59	1859.880	73.235	8/29/25 13:09:59	1859.641	73.292	8/29/25 14:09:59	1859.342	73.323
8/29/25 12:10:59	1859.901	73.244	8/29/25 13:10:59	1859.628	73.285	8/29/25 14:10:59	1859.364	73.329
8/29/25 12:11:59	1859.893	73.244	8/29/25 13:11:59	1859.631	73.286	8/29/25 14:11:59	1859.360	73.332
8/29/25 12:12:59	1859.870	73.236	8/29/25 13:12:59	1859.606	73.282	8/29/25 14:12:59	1859.369	73.327
8/29/25 12:13:59	1859.874	73.234	8/29/25 13:13:59	1859.598	73.289	8/29/25 14:13:59	1859.347	73.327
8/29/25 12:14:59	1859.876	73.248	8/29/25 13:14:59	1859.609	73.289	8/29/25 14:14:59	1859.344	73.327
8/29/25 12:15:59	1859.874	73.245	8/29/25 13:15:59	1859.605	73.289	8/29/25 14:15:59	1859.334	73.327
8/29/25 12:16:59	1859.852	73.240	8/29/25 13:16:59	1859.601	73.290	8/29/25 14:16:59	1859.329	73.324
8/29/25 12:17:59	1859.863	73.246	8/29/25 13:17:59	1859.581	73.289	8/29/25 14:17:59	1859.337	73.326
8/29/25 12:18:59	1859.867	73.246	8/29/25 13:18:59	1859.586	73.289	8/29/25 14:18:59	1859.325	73.329
8/29/25 12:19:59	1859.851	73.249	8/29/25 13:19:59	1859.577	73.289	8/29/25 14:19:59	1859.317	73.330
8/29/25 12:20:59	1859.839	73.242	8/29/25 13:20:59	1859.585	73.295	8/29/25 14:20:59	1859.323	73.330
8/29/25 12:21:59	1859.847	73.249	8/29/25 13:21:59	1859.575	73.292	8/29/25 14:21:59	1859.325	73.335
8/29/25 12:22:59	1859.842	73.250	8/29/25 13:22:59	1859.577	73.295	8/29/25 14:22:59	1859.308	73.336
8/29/25 12:23:59	1859.813	73.247	8/29/25 13:23:59	1859.572	73.296	8/29/25 14:23:59	1859.310	73.337
8/29/25 12:24:59	1859.821	73.248	8/29/25 13:24:59	1859.581	73.300	8/29/25 14:24:59	1859.298	73.330
8/29/25 12:25:59	1859.827	73.249	8/29/25 13:25:59	1859.566	73.300	8/29/25 14:25:59	1859.310	73.336
8/29/25 12:26:59	1859.851	73.260	8/29/25 13:26:59	1859.557	73.296	8/29/25 14:26:59	1859.300	73.333
8/29/25 12:27:59	1859.816	73.254	8/29/25 13:27:59	1859.543	73.297	8/29/25 14:27:59	1859.298	73.337
8/29/25 12:28:59	1859.815	73.255	8/29/25 13:28:59	1859.524	73.293	8/29/25 14:28:59	1859.296	73.340
8/29/25 12:29:59	1859.802	73.255	8/29/25 13:29:59	1859.528	73.296	8/29/25 14:29:59	1859.292	73.338
8/29/25 12:30:59	1859.796	73.254	8/29/25 13:30:59	1859.547	73.301	8/29/25 14:30:59	1859.292	73.342
8/29/25 12:31:59	1859.817	73.260	8/29/25 13:31:59	1859.529	73.300	8/29/25 14:31:59	1859.288	73.340
8/29/25 12:32:59	1859.776	73.254	8/29/25 13:32:59	1859.533	73.299	8/29/25 14:32:59	1859.277	73.339
8/29/25 12:33:59	1859.784	73.256	8/29/25 13:33:59	1859.514	73.299	8/29/25 14:33:59	1859.277	73.343
8/29/25 12:34:59	1859.766	73.255	8/29/25 13:34:59	1859.519	73.298	8/29/25 14:34:59	1859.273	73.344
8/29/25 12:35:59	1859.773	73.258	8/29/25 13:35:59	1859.515	73.307	8/29/25 14:35:59	1859.275	73.342
8/29/25 12:36:59	1859.765	73.258	8/29/25 13:36:59	1859.498	73.303	8/29/25 14:36:59	1859.253	73.337
8/29/25 12:37:59	1859.772	73.261	8/29/25 13:37:59	1859.515	73.305	8/29/25 14:37:59	1859.259	73.344
8/29/25 12:38:59	1859.777	73.265	8/29/25 13:38:59	1859.496	73.306	8/29/25 14:38:59	1859.261	73.347
8/29/25 12:39:59	1859.765	73.260	8/29/25 13:39:59	1859.503	73.309	8/29/25 14:39:59	1859.255	73.346
8/29/25 12:40:59	1859.759	73.265	8/29/25 13:40:59	1859.487	73.305	8/29/25 14:40:59	1859.248	73.343
8/29/25 12:41:59	1859.748	73.258	8/29/25 13:41:59	1859.475	73.304	8/29/25 14:41:59	1859.241	73.345
8/29/25 12:42:59	1859.755	73.267	8/29/25 13:42:59	1859.469	73.303	8/29/25 14:42:59	1859.233	73.347
8/29/25 12:43:59	1859.756	73.267	8/29/25 13:43:59	1859.474	73.307	8/29/25 14:43:59	1859.249	73.352
8/29/25 12:44:59	1859.751	73.268	8/29/25 13:44:59	1859.472	73.310	8/29/25 14:44:59	1859.241	73.347
8/29/25 12:45:59	1859.734	73.264	8/29/25 13:45:59	1859.472	73.304	8/29/25 14:45:59	1859.226	73.346
8/29/25 12:46:59	1859.723	73.265	8/29/25 13:46:59	1859.463	73.307	8/29/25 14:46:59	1859.231	73.351
8/29/25 12:47:59	1859.716	73.264	8/29/25 13:47:59	1859.458	73.309	8/29/25 14:47:59	1859.216	73.354
8/29/25 12:48:59	1859.722	73.272	8/29/25 13:48:59	1859.450	73.307	8/29/25 14:48:59	1859.216	73.358
8/29/25 12:49:59	1859.717	73.268	8/29/25 13:49:59	1859.474	73.318	8/29/25 14:49:59	1859.206	73.353
8/29/25 12:50:59	1859.713	73.269	8/29/25 13:50:59	1859.461	73.314	8/29/25 14:50:59	1859.214	73.351
8/29/25 12:51:59	1859.712	73.267	8/29/25 13:51:59	1859.459	73.311	8/29/25 14:51:59	1859.203	73.350
8/29/25 12:52:59	1859.708	73.276	8/29/25 13:52:59	1859.459	73.317	8/29/25 14:52:59	1859.209	73.360
8/29/25 12:53:59	1859.686	73.272	8/29/25 13:53:59	1859.450	73.316	8/29/25 14:53:59	1859.186	73.350
8/29/25 12:54:59	1859.677	73.270	8/29/25 13:54:59	1859.458	73.319	8/29/25 14:54:59	1859.195	73.357
8/29/25 12:55:59	1859.687	73.273	8/29/25 13:55:59	1859.437	73.316	8/29/25 14:55:59	1859.177	73.347
8/29/25 12:56:59	1859.679	73.272	8/29/25 13:56:59	1859.443	73.319	8/29/25 14:56:59	1859.178	73.355
8/29/25 12:57:59	1859.682	73.278	8/29/25 13:57:59	1859.428	73.319	8/29/25 14:57:59	1859.191	73.361
8/29/25 12:58:59	1859.672	73.273	8/29/25 13:58:59	1859.430	73.322	8/29/25 14:58:59	1859.159	73.359
8/29/25 12:59:59	1859.668	73.275	8/29/25 13:59:59	1859.434	73.322	8/29/25 14:59:59	1859.162	73.359
8/29/25 13:00:59	1859.670	73.276	8/29/25 14:00:59	1859.415	73.319	8/29/25 15:00:59	1859.166	73.359
8/29/25 13:01:59	1859.657	73.279	8/29/25 14:01:59	1859.396	73.319	8/29/25 15:01:59	1859.155	73.359
8/29/25 13:02:59	1859.639	73.278	8/29/25 14:02:59	1859.404	73.321	8/29/25 15:02:59	1859.164	73.365
8/29/25 13:03:59	1859.650	73.281	8/29/25 14:03:59	1859.387	73.321	8/29/25 15:03:59	1859.176	73.363
8/29/25 13:04:59	1859.633	73.278	8/29/25 14:04:59	1859.399	73.324	8/29/25 15:04:59	1859.163	73.363

Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F	Date/Time	Pressure, psia	Temperature, °F
8/29/25 15:05:59	1859.130	73.356	8/29/25 16:05:59	1436.160	74.104			
8/29/25 15:06:59	1859.140	73.364	8/29/25 16:06:59	1436.042	73.997			
8/29/25 15:07:59	1859.151	73.367	8/29/25 16:07:59	1436.099	73.929			
8/29/25 15:08:59	1859.125	73.363	8/29/25 16:08:59	1436.081	73.864			
8/29/25 15:09:59	1859.115	73.360	8/29/25 16:09:59	1290.857	72.162			
8/29/25 15:10:59	1859.135	73.369	8/29/25 16:10:59	1117.403	67.950			
8/29/25 15:11:59	1859.134	73.366	8/29/25 16:11:59	1003.273	64.380			
8/29/25 15:12:59	1859.132	73.367	8/29/25 16:12:59	1002.817	63.415			
8/29/25 15:13:59	1859.100	73.362	8/29/25 16:13:59	1002.641	63.122			
8/29/25 15:14:59	1859.122	73.367	8/29/25 16:14:59	1002.603	62.982			
8/29/25 15:15:59	1859.115	73.365	8/29/25 16:15:59	1002.595	62.884			
8/29/25 15:16:59	1859.113	73.368	8/29/25 16:16:59	985.121	62.814			
8/29/25 15:17:59	1859.118	73.372	8/29/25 16:17:59	826.915	62.079			
8/29/25 15:18:59	1859.080	73.363	8/29/25 16:18:59	650.051	60.864			
8/29/25 15:19:59	1859.109	73.372	8/29/25 16:19:59	569.551	59.433			
8/29/25 15:20:59	1859.109	73.375	8/29/25 16:20:59	569.502	59.074			
8/29/25 15:21:59	1859.079	73.367	8/29/25 16:21:59	569.483	58.939			
8/29/25 15:22:59	1859.091	73.373	8/29/25 16:22:59	569.460	58.873			
8/29/25 15:23:59	1859.078	73.371	8/29/25 16:23:59	569.451	58.828			
8/29/25 15:24:59	1859.096	73.379	8/29/25 16:24:59	569.465	58.795			
8/29/25 15:25:59	1859.081	73.376	8/29/25 16:25:59	569.447	58.762			
8/29/25 15:26:59	1859.060	73.372	8/29/25 16:26:59	463.891	58.664			
8/29/25 15:27:59	1859.074	73.373	8/29/25 16:27:59	293.635	57.722			
8/29/25 15:28:59	1859.070	73.378	8/29/25 16:28:59	191.001	57.786			
8/29/25 15:29:59	1859.067	73.376	8/29/25 16:29:59	137.128	59.980			
8/29/25 15:30:59	1859.057	73.374	8/29/25 16:30:59	137.035	63.512			
8/29/25 15:31:59	1859.060	73.377	8/29/25 16:31:59	136.975	64.939			
8/29/25 15:32:59	1859.052	73.377	8/29/25 16:32:59	136.965	65.778			
8/29/25 15:33:59	1859.045	73.376	8/29/25 16:33:59	136.918	66.318			
8/29/25 15:34:59	1859.043	73.379	8/29/25 16:34:59	136.906	66.681			
8/29/25 15:35:59	1859.028	73.377	8/29/25 16:35:59	134.968	67.078			
8/29/25 15:36:59	1859.028	73.381	8/29/25 16:36:59	135.557	69.715			
8/29/25 15:37:59	1859.022	73.379	8/29/25 16:37:59	125.934	70.909			
8/29/25 15:38:59	1859.031	73.384	8/29/25 16:38:59	127.065	71.659			
8/29/25 15:39:59	1859.030	73.380	8/29/25 16:39:59	0.898	72.815			
8/29/25 15:40:59	1859.027	73.384	8/29/25 16:40:59	1.008	73.503			
8/29/25 15:41:59	1859.014	73.382	8/29/25 16:41:59	1.000	73.692			
8/29/25 15:42:59	1859.026	73.386	8/29/25 16:42:59	1.058	73.805			
8/29/25 15:43:59	1859.007	73.383	8/29/25 16:43:59	1.057	73.735			
8/29/25 15:44:59	1858.993	73.382	8/29/25 16:44:59	1.100	73.299			
8/29/25 15:45:59	1859.015	73.386	8/29/25 16:45:59	1.108	73.028			
8/29/25 15:46:59	1858.994	73.383	8/29/25 16:46:59	1.137	73.065			
8/29/25 15:47:59	1858.973	73.380	8/29/25 16:47:59	1.142	73.366			
8/29/25 15:48:59	1858.996	73.389	8/29/25 16:48:59	1.223	74.060			
8/29/25 15:49:59	1858.969	73.380	8/29/25 16:49:59	1.177	74.863			
8/29/25 15:50:59	1859.013	73.396	8/29/25 16:50:59	1.048	75.563			
8/29/25 15:51:59	1858.969	73.387						
8/29/25 15:52:59	1858.964	73.382						
8/29/25 15:53:59	1858.963	73.392						
8/29/25 15:54:59	1858.961	73.393						
8/29/25 15:55:59	1858.976	73.394						
8/29/25 15:56:59	1858.967	73.394						
8/29/25 15:57:59	1858.962	73.393						
8/29/25 15:58:59	1858.952	73.393						
8/29/25 15:59:59	1858.936	73.388						
8/29/25 16:00:59	1821.661	73.711						
8/29/25 16:01:59	1661.709	77.530						
8/29/25 16:02:59	1497.045	76.605						
8/29/25 16:03:59	1436.500	74.804						
8/29/25 16:04:59	1436.234	74.297						

APPENDIX I

PANSYSTEM© ANALYSIS OF FALLOFF TEST



Well Test Analysis Report

File: Republic Well #2-12 2025 PFOT Analysis.panx

Date: 19-September-2025

Report Details :

Company Name	Republic Industrial & Energy Solutions, LLC
Location	Romulus Facility
Well	2-12
Test	Reservoir Pressure Falloff
Date	August 28-29, 2025
Injection Interval	3975 - 4500 ft RKB
Interval Completion	Open-Hole
Gauge Type	Badger Low Temp
Gauge Serial Number	91874
Gauge Depth	3975 ft RKB
WSP Analyst	JL
WSP Project Number	192128UESS.7160

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Input Data

Reservoir Configuration

Fluid type	Water
Well orientation	Vertical/Slant
Number of wells	1
Number of layers	1

Layer Parameters

Parameter	Layer 1
Formation thickness (ft)	133
Average formation porosity	0.11
Water saturation	0
Gas saturation	0
Formation compressibility (psi-1)	0.0000e+000
Total system compressibility (psi-1)	6.2000e-006
Layer pressure (psia)	0
Temperature (deg F)	0

Well Parameters

Parameter	Well 1
Well radius (ft)	0.3646
Distance from observation to active well (ft)	0
Wellbore storage coefficient (bbl/psi)	0
Storage Amplitude (psi)	0
Storage Time Constant (hr)	0
Second Wellbore Storage (bbl/psi)	0
Time Change for Second Storage (hr)	0
Well offset - x direction (ft)	0
Well offset - y direction (ft)	0

Fluid Parameters

Parameter	Layer 1
Oil gravity (API)	0
Gas gravity (sp grav)	0
Gas-oil ratio (produced) (scf/STB)	0
Water cut	0
Water salinity (ppm)	0
Check Pressure (psia)	0
Check Temperature (deg F)	0
Gas-oil ratio (solution) (scf/STB)	0
Bubble-point pressure (psia)	0
Oil density (lb/ft3)	0
Oil viscosity (cp)	0
Oil formation volume factor (RB/STB)	0
Gas density (lb/ft3)	0
Gas viscosity (cp)	0
Gas formation volume factor (ft3/scf)	0
Water density (lb/ft3)	0
Water viscosity (cp)	1.34
Water formation volume factor (RB/STB)	1
Oil compressibility (psi-1)	0.0000e+000
Initial Gas compressibility (psi-1)	0.0000e+000
Water compressibility (psi-1)	0.0000e+000

Correlations

Correlation Parameters	Layer 1
Cf Correlation	Hall Correlation
Young's modulus (E) (psi)	0
Poisson's Ratio (v)	0

Layer Boundaries

Boundary Parameter	Layer 1
Boundary Type	Infinitely acting

Rate Change Data

DateTime (hh:mm:ss)	Pressure (psia)	Rate (STB/day)
8/28/2025 8:27:00 AM	0	0
8/28/2025 8:34:34 PM	2035.778	-1483.92
8/29/2025 4:00:34 PM	1873.73	0

Model Data

Layer 1 Model Data

Model Parameter	Model Data
Model Name	Model 1
Model Type	Radial homogeneous
Permeability (md)	0
Skin factor	0

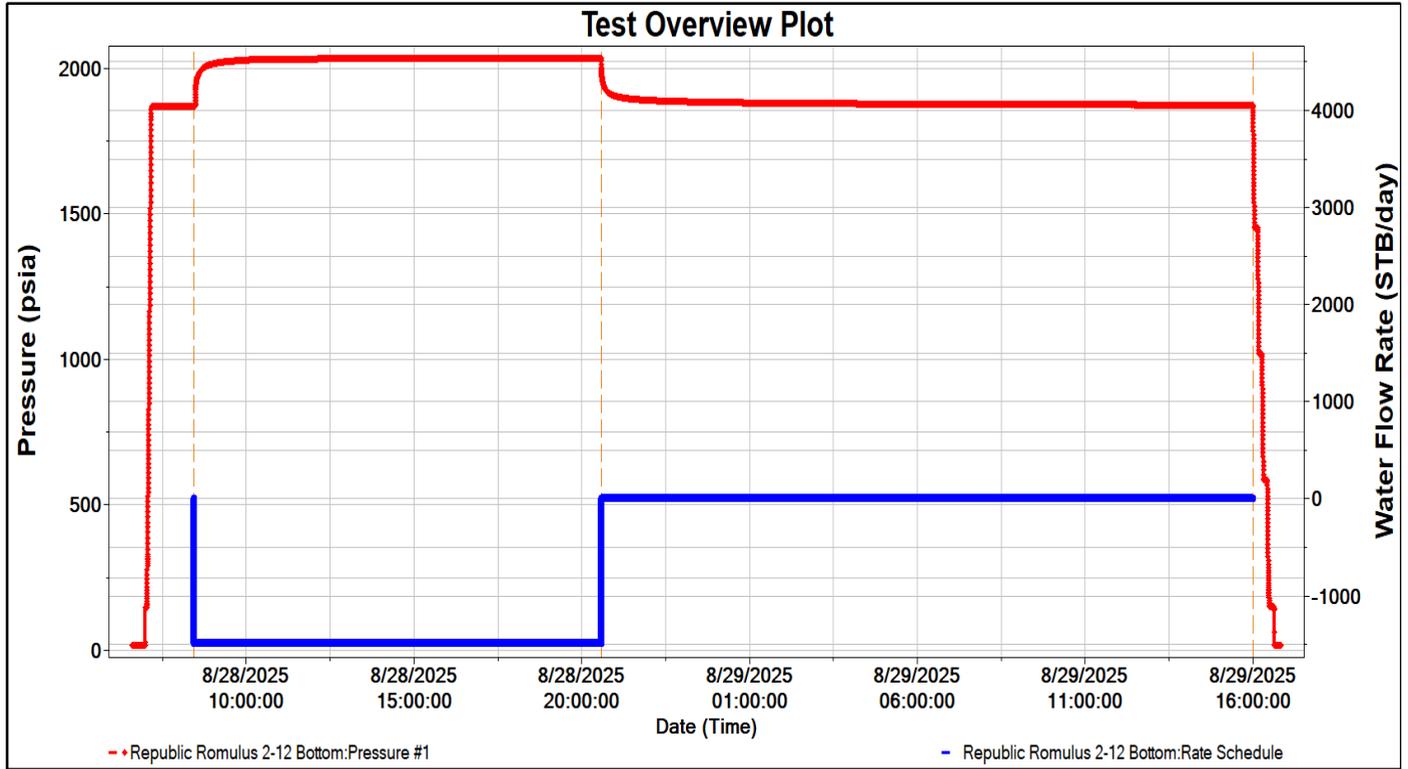
Analysis

Model - Layer 1 : Model 1

Model Detail

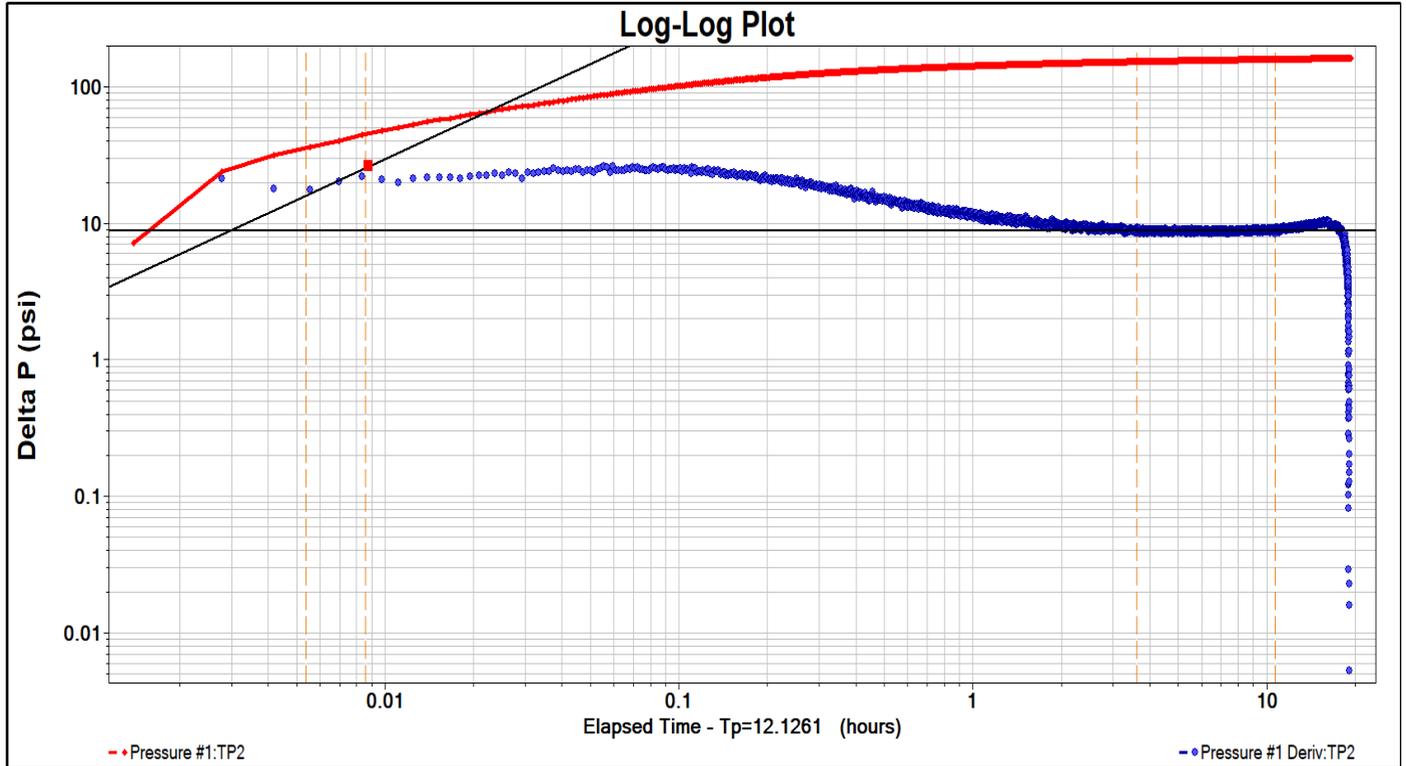
Model Parameter	Model Data
Model Name	Model 1
Model Type	Radial homogeneous
Layer	Layer 1
WellBore Storage Model	Classic Wellbore Storage

Test Overview Plot



Test Overview Plot

Log-Log Plot:TP2



Log-Log Plot

Line Results

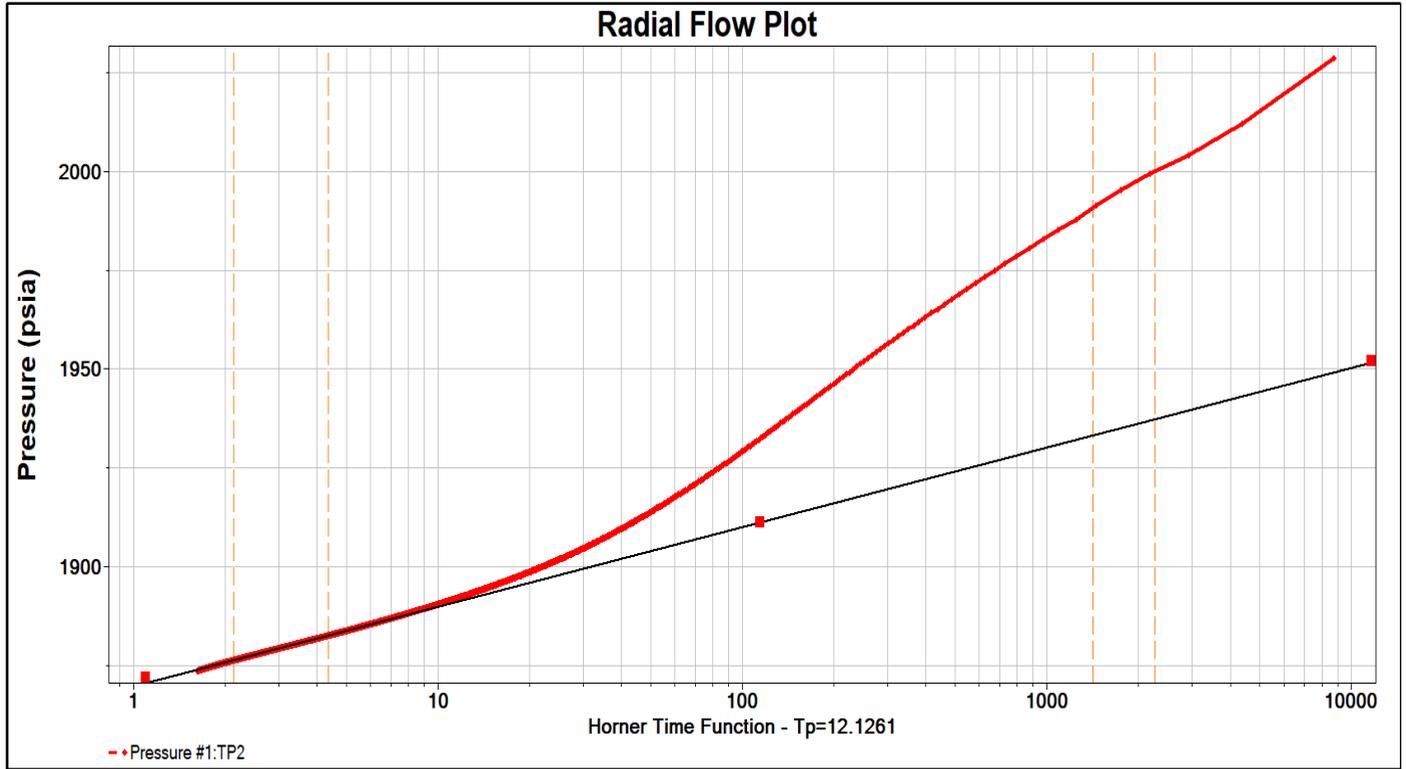
Line Result Parameter	Value
Wellbore storage coefficient (bbl/psi)	0.0211427
Permeability (md)	121.916
Permeability-thickness (md.ft)	16214.8
Skin factor	1.46168

Line Details

Details	Value
Line type	Radial flow
Slope	0
Intercept	8.658
Coefficient of Determination	Not Used

Details	Value
Line type	Wellbore storage
Slope	1
Intercept	2924.417
Coefficient of Determination	Not Used

Radial Flow Plot:TP2



Radial Flow Plot

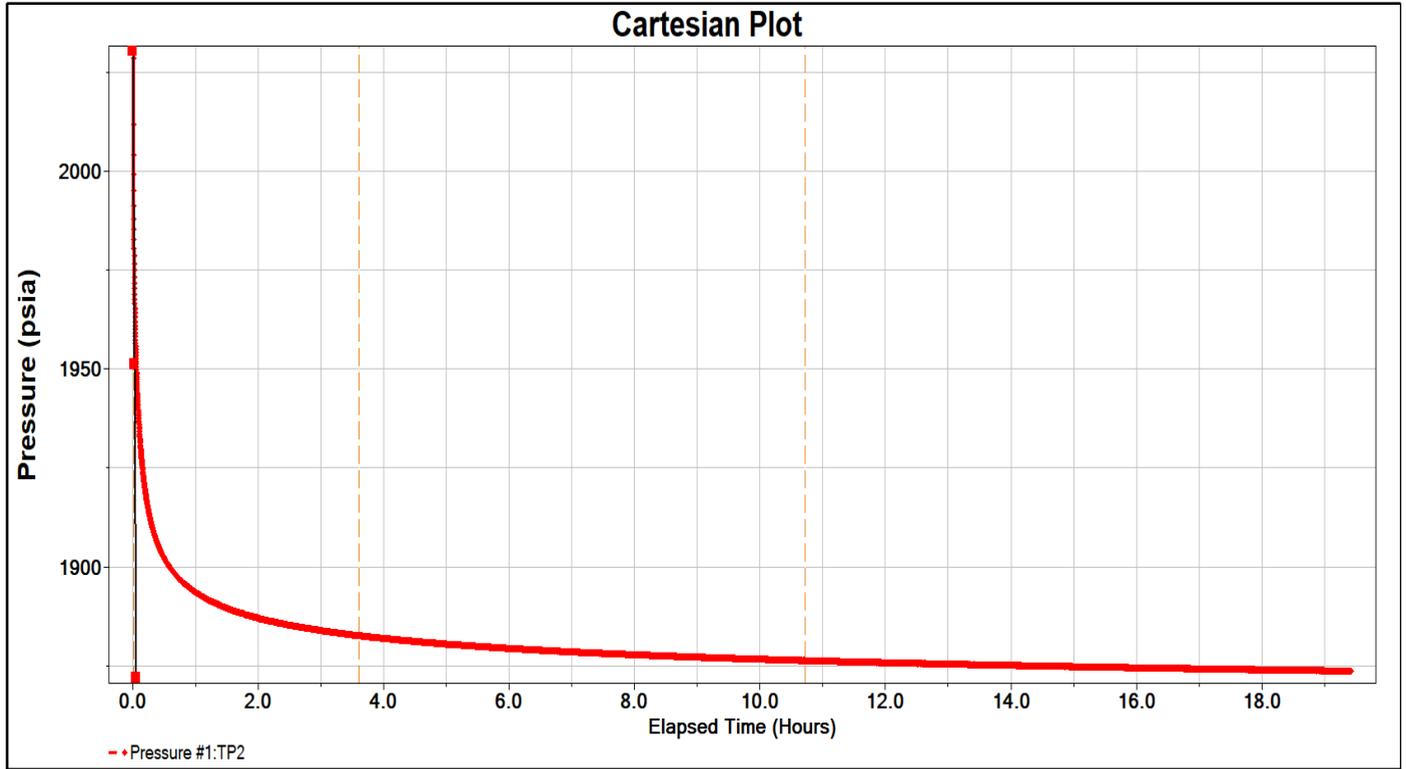
Line Results

Line Result Parameter	Value
Permeability (md)	120.656
Permeability-thickness (md.ft)	16047.2
Extrapolated pressure (psia)	1869.684
Radius of investigation (ft)	1468.93
Flow efficiency	0.831145
dP skin (constant rate) (psi)	28.0457
Skin factor	1.60293

Line Details

Details	Value
Line type	Radial flow
Slope	20.144
Intercept	1869.684
Coefficient of Determination	1
Extrapolated pressure (psia)	1869.684
Pressure at dt = 1 hour (psia)	1892.208

Cartesian Plot:TP2



Cartesian Plot

Line Results

Line Result Parameter	Value
Wellbore storage coefficient (bbl/psi)	0.0215523

Line Details

Details	Value
Line type	Wellbore storage
Slope	-2868.84
Intercept	2015.207
Coefficient of Determination	1

APPENDIX J
PRESSURE TEST REPORT DATA



Pressure Test Report

COMPANY INFORMATION

Company Name	Republic Services
Representative	Gabriel Holmes With WSP USA,
Phone	605-661-7263
Fax	
Address	Republic Services 28470 Citrin Drive Romulus, MI 48174
E-Mail Address	
Service Company	Impact Completions, LLC

WELL INFORMATION

Well Name	Facility Well # 2-12
Well Location	Romulus, MI
Field and Pool	
Status (Oil, Gas, Water, Injection)	
Perforated Intervals	
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13 feet above ground level
Casing Flange (CF)	
KB-CF	
Ground Level	
Plug Back Total Depth	
Total Depth	
Production Casing	
Production Tubing	

TEST INFORMATION

Type of Test	Injection/Fall-Off
Date(s) of Test	August 28, 2025 thru August 29, 2025
Dead-weight Gauge Tubing Pressure	
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	August 28, 2025 @ 20:34:35
Date / Time on Bottom	August 28, 2025 at 07:11:08
Date / Time off Bottom	August 29, 2025 at 16:00:30
Probe Serial Number	91874
Probe Offset from End of Tool String	
Run Depth at Probe Pressure Port	

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	2021.1 psig
Maximum Recorded Probe Temperature	79.3 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

PROBE INFORMATION

Probe Serial Number 91874
Model Badger Low Temp
Pressure
 Calibrated Pressure Range 0.00 - 10,000.00
 Accuracy 2.4000 psi (0.024 %FS)
 Resolution 0.0300 psi (0.0003 %FS)
Temperature
 Calibrated Temperature Range 0.00 - 150.0 deg C
 Accuracy 0.40 deg C (0.40 %FS)
 Resolution 0.001 deg C (0.001%FS)
Calibration File Used for Reports October 10, 2024

PROGRAMMING DETAILS

<u>Step</u>	<u>Sample Mode</u>	<u>Period</u>	<u>Duration</u>	<u>Comment</u>
-------------	--------------------	---------------	-----------------	----------------

Program Start Time
Program End Time
Total Samples Taken
Usage for this Test
Generic Data File Name

Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Pressure vs. Depth

Probe Serial Number 91874

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
15:55	16:00	3975.000	1858.936	-	73.387	-
16:03	16:08	3000.000	1436.096	0.4337	73.897	-0.0005
16:11	16:16	2000.000	1002.615	0.4335	62.911	0.0110
16:19	16:24	1000.000	569.454	0.4332	58.809	0.0041
16:30	16:35	0.000	136.903	0.4326	66.747	-0.0079

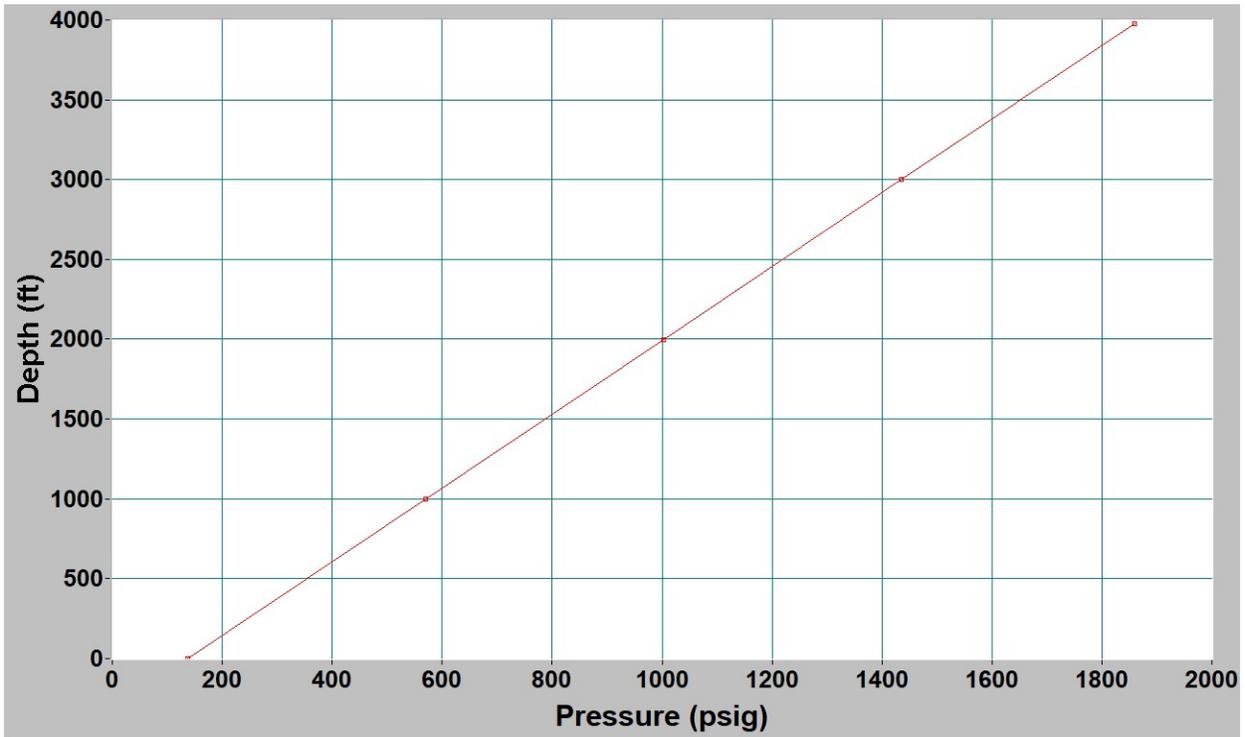
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

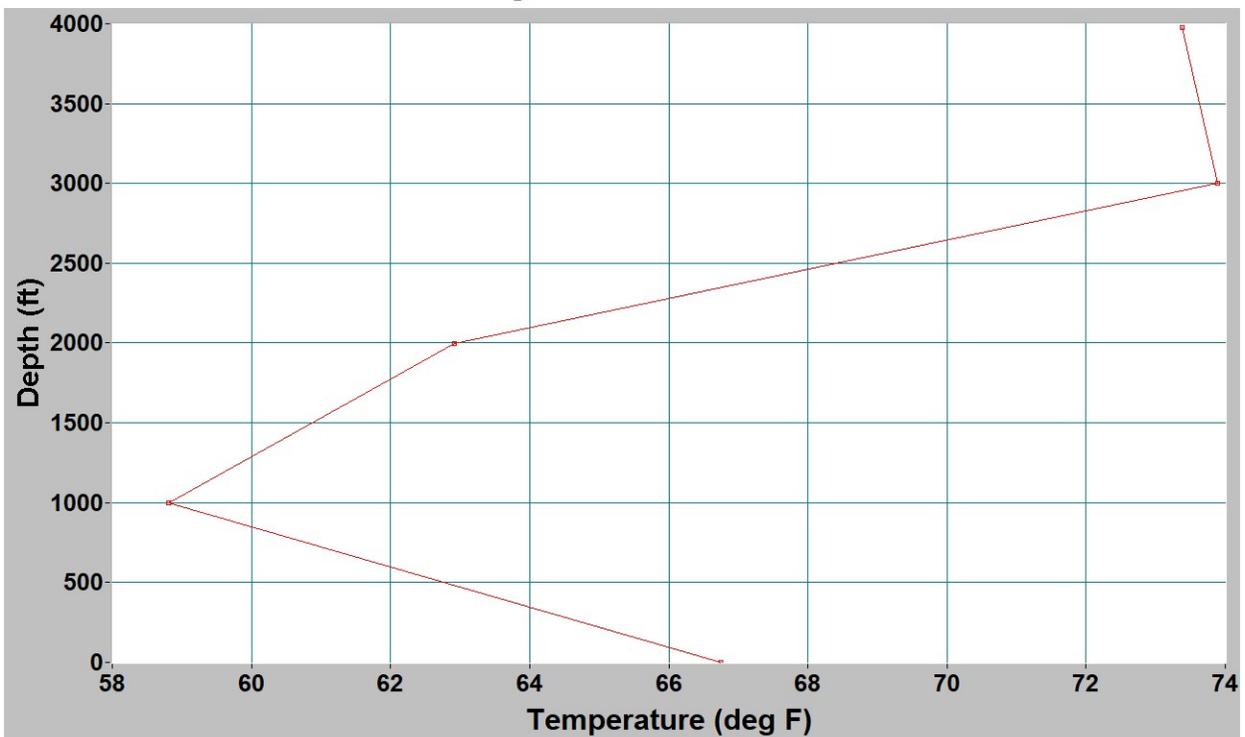
Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Probe Serial Number 91874

Static Pressure Gradients

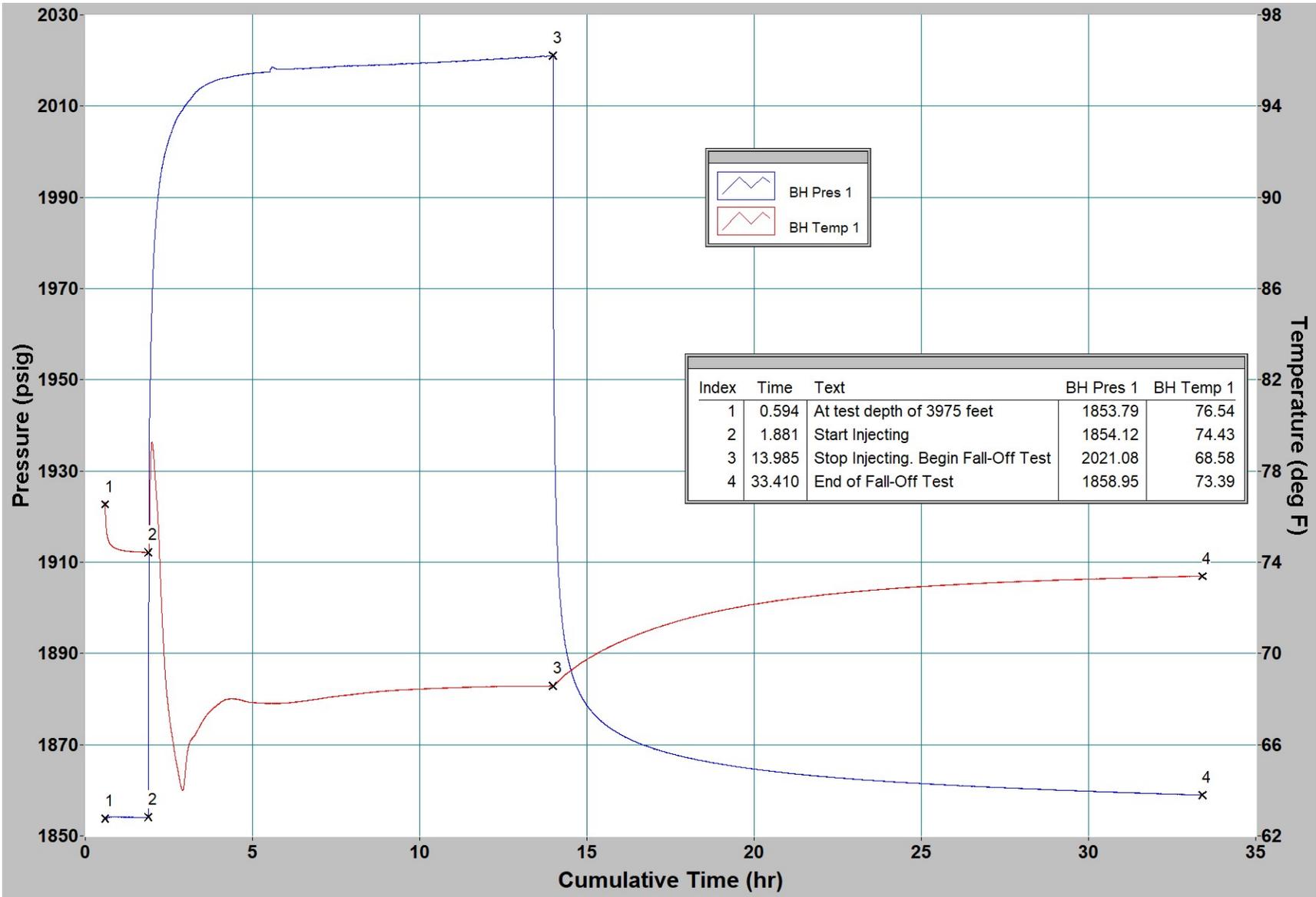


Static Temperature Gradients



Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Fall-Off Test



Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
Gauges on surface				
2025/08/28	06:35:29	0.0000	2.023	57.013
2025/08/28	06:41:29	0.1000	1.405	56.800
2025/08/28	06:47:29	0.2000	1.418	56.170
2025/08/28	06:53:29	0.3000	1.261	55.791
Gauges in lubricator				
2025/08/28	06:54:39	0.3194	1.269	55.728
Begin equalizing lubricator				
2025/08/28	06:59:24	0.3986	1.225	55.616
2025/08/28	06:59:29	0.4000	11.803	55.614
R.I.H. with gauges				
2025/08/28	07:01:29	0.4333	130.349	56.498
2025/08/28	07:05:29	0.5000	726.283	58.186
At test depth of 3975 feet				
2025/08/28	07:11:09	0.5944	1853.786	76.545
2025/08/28	07:11:29	0.6000	1853.939	76.233
2025/08/28	07:17:29	0.7000	1854.064	74.925
2025/08/28	07:23:29	0.8000	1854.139	74.700
2025/08/28	07:29:29	0.9000	1854.141	74.610
2025/08/28	07:35:29	1.0000	1854.125	74.552
2025/08/28	07:41:29	1.1000	1854.114	74.521
2025/08/28	07:47:29	1.2000	1854.100	74.494
2025/08/28	07:53:29	1.3000	1854.087	74.478
2025/08/28	07:59:29	1.4000	1854.102	74.466
2025/08/28	08:05:29	1.5000	1854.047	74.444
2025/08/28	08:11:29	1.6000	1854.042	74.440
2025/08/28	08:17:29	1.7000	1854.030	74.431
2025/08/28	08:23:29	1.8000	1854.025	74.430
Start Injecting				
2025/08/28	08:28:19	1.8806	1854.120	74.430
2025/08/28	08:29:29	1.9000	1913.981	74.460
2025/08/28	08:35:29	2.0000	1968.556	79.239
2025/08/28	08:41:29	2.1000	1983.843	77.464
2025/08/28	08:47:29	2.2000	1991.800	75.106
2025/08/28	08:53:29	2.3000	1996.631	71.515
2025/08/28	08:59:29	2.4000	2000.067	68.837
2025/08/28	09:05:29	2.5000	2002.700	67.359
2025/08/28	09:11:29	2.6000	2004.847	66.335
2025/08/28	09:17:29	2.7000	2006.713	65.372
2025/08/28	09:23:29	2.8000	2008.030	64.614
2025/08/28	09:29:29	2.9000	2009.080	64.006
2025/08/28	09:35:29	3.0000	2010.255	64.994
2025/08/28	09:41:29	3.1000	2011.203	66.011
2025/08/28	09:47:29	3.2000	2012.026	66.272
2025/08/28	09:53:29	3.3000	2013.031	66.470
2025/08/28	09:59:29	3.4000	2013.658	66.747
2025/08/28	10:05:29	3.5000	2014.193	67.008
2025/08/28	10:11:29	3.6000	2014.622	67.231
2025/08/28	10:17:29	3.7000	2014.981	67.415
2025/08/28	10:23:29	3.8000	2015.333	67.561

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/28	10:29:29	3.9000	2015.661	67.685
2025/08/28	10:35:29	4.0000	2015.877	67.791
2025/08/28	10:41:29	4.1000	2016.072	67.908
2025/08/28	10:47:29	4.2000	2016.204	67.978
2025/08/28	10:53:29	4.3000	2016.324	68.000
2025/08/28	10:59:29	4.4000	2016.509	68.005
2025/08/28	11:05:29	4.5000	2016.658	67.993
2025/08/28	11:11:29	4.6000	2016.754	67.969
2025/08/28	11:17:29	4.7000	2016.895	67.942
2025/08/28	11:23:29	4.8000	2017.026	67.892
2025/08/28	11:29:29	4.9000	2017.115	67.863
2025/08/28	11:35:29	5.0000	2017.157	67.843
2025/08/28	11:41:29	5.1000	2017.267	67.838
2025/08/28	11:47:29	5.2000	2017.290	67.825
2025/08/28	11:53:29	5.3000	2017.377	67.813
2025/08/28	11:59:29	5.4000	2017.404	67.806
2025/08/28	12:05:29	5.5000	2017.489	67.802
2025/08/28	12:11:29	5.6000	2018.582	67.807
2025/08/28	12:17:29	5.7000	2018.146	67.809
2025/08/28	12:23:29	5.8000	2018.023	67.807
2025/08/28	12:29:29	5.9000	2018.053	67.816
2025/08/28	12:35:29	6.0000	2018.125	67.827
2025/08/28	12:41:29	6.1000	2018.088	67.842
2025/08/28	12:47:29	6.2000	2018.119	67.845
2025/08/28	12:53:29	6.3000	2018.202	67.867
2025/08/28	12:59:29	6.4000	2018.213	67.887
2025/08/28	13:05:29	6.5000	2018.171	67.908
2025/08/28	13:11:29	6.6000	2018.272	67.924
2025/08/28	13:17:29	6.7000	2018.321	67.944
2025/08/28	13:23:29	6.8000	2018.390	67.968
2025/08/28	13:29:29	6.9000	2018.394	67.987
2025/08/28	13:35:29	7.0000	2018.452	68.009
2025/08/28	13:41:29	7.1000	2018.502	68.032
2025/08/28	13:47:29	7.2000	2018.564	68.052
2025/08/28	13:53:29	7.3000	2018.489	68.072
2025/08/28	13:59:29	7.4000	2018.614	68.095
2025/08/28	14:05:29	7.5000	2018.670	68.113
2025/08/28	14:11:29	7.6000	2018.723	68.135
2025/08/28	14:17:29	7.7000	2018.772	68.153
2025/08/28	14:23:29	7.8000	2018.786	68.167
2025/08/28	14:29:29	7.9000	2018.818	68.182
2025/08/28	14:35:29	8.0000	2018.848	68.203
2025/08/28	14:41:29	8.1000	2018.858	68.212
2025/08/28	14:47:29	8.2000	2018.900	68.238
2025/08/28	14:53:29	8.3000	2018.892	68.256
2025/08/28	14:59:29	8.4000	2018.917	68.265
2025/08/28	15:05:29	8.5000	2018.983	68.283
2025/08/28	15:11:29	8.6000	2018.973	68.302
2025/08/28	15:17:29	8.7000	2019.011	68.317
2025/08/28	15:23:29	8.8000	2019.003	68.329

Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/28	15:29:29	8.9000	2019.013	68.340
2025/08/28	15:35:29	9.0000	2019.096	68.355
2025/08/28	15:41:29	9.1000	2019.115	68.369
2025/08/28	15:47:29	9.2000	2019.091	68.373
2025/08/28	15:53:29	9.3000	2019.168	68.378
2025/08/28	15:59:29	9.4000	2019.285	68.396
2025/08/28	16:05:29	9.5000	2019.256	68.398
2025/08/28	16:11:29	9.6000	2019.310	68.410
2025/08/28	16:17:29	9.7000	2019.354	68.412
2025/08/28	16:23:29	9.8000	2019.317	68.427
2025/08/28	16:29:29	9.9000	2019.374	68.430
2025/08/28	16:35:29	10.0000	2019.440	68.443
2025/08/28	16:41:29	10.1000	2019.514	68.443
2025/08/28	16:47:29	10.2000	2019.452	68.455
2025/08/28	16:53:29	10.3000	2019.575	68.457
2025/08/28	16:59:29	10.4000	2019.567	68.464
2025/08/28	17:05:29	10.5000	2019.583	68.473
2025/08/28	17:11:29	10.6000	2019.623	68.472
2025/08/28	17:17:29	10.7000	2019.693	68.479
2025/08/28	17:23:29	10.8000	2019.691	68.486
2025/08/28	17:29:29	10.9000	2019.739	68.493
2025/08/28	17:35:29	11.0000	2019.815	68.493
2025/08/28	17:41:29	11.1000	2019.780	68.500
2025/08/28	17:47:29	11.2000	2019.837	68.504
2025/08/28	17:53:29	11.3000	2019.954	68.511
2025/08/28	17:59:29	11.4000	2019.888	68.513
2025/08/28	18:05:29	11.5000	2019.995	68.517
2025/08/28	18:11:29	11.6000	2020.074	68.515
2025/08/28	18:17:29	11.7000	2020.049	68.527
2025/08/28	18:23:29	11.8000	2020.073	68.527
2025/08/28	18:29:29	11.9000	2020.186	68.535
2025/08/28	18:35:29	12.0000	2020.272	68.547
2025/08/28	18:41:29	12.1000	2020.201	68.542
2025/08/28	18:47:29	12.2000	2020.236	68.545
2025/08/28	18:53:29	12.3000	2020.356	68.554
2025/08/28	18:59:29	12.4000	2020.412	68.558
2025/08/28	19:05:29	12.5000	2020.398	68.558
2025/08/28	19:11:29	12.6000	2020.334	68.558
2025/08/28	19:17:29	12.7000	2020.459	68.563
2025/08/28	19:23:29	12.8000	2020.523	68.567
2025/08/28	19:29:29	12.9000	2020.639	68.565
2025/08/28	19:35:29	13.0000	2020.559	68.563
2025/08/28	19:41:29	13.1000	2020.697	68.565
2025/08/28	19:47:29	13.2000	2020.749	68.558
2025/08/28	19:53:29	13.3000	2020.729	68.562
2025/08/28	19:59:29	13.4000	2020.683	68.554
2025/08/28	20:05:29	13.5000	2020.828	68.563
2025/08/28	20:11:29	13.6000	2020.900	68.565
2025/08/28	20:17:29	13.7000	2020.951	68.560
2025/08/28	20:23:29	13.8000	2020.921	68.576

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/28	20:29:29	13.9000	2021.015	68.572
Stop Injecting. Begin Fall-Off Test				
2025/08/28	20:34:34	13.9847	2021.082	68.576
2025/08/28	20:35:29	14.0000	1963.869	68.572
2025/08/28	20:41:29	14.1000	1915.837	68.727
2025/08/28	20:47:29	14.2000	1901.857	68.860
2025/08/28	20:53:29	14.3000	1894.587	68.992
2025/08/28	20:59:29	14.4000	1889.944	69.121
2025/08/28	21:05:29	14.5000	1886.837	69.233
2025/08/28	21:11:29	14.6000	1884.443	69.341
2025/08/28	21:17:29	14.7000	1882.519	69.444
2025/08/28	21:23:29	14.8000	1881.079	69.561
2025/08/28	21:29:29	14.9000	1879.721	69.651
2025/08/28	21:35:29	15.0000	1878.609	69.741
2025/08/28	21:41:29	15.1000	1877.670	69.825
2025/08/28	21:47:29	15.2000	1876.809	69.912
2025/08/28	21:53:29	15.3000	1876.059	69.996
2025/08/28	21:59:29	15.4000	1875.341	70.084
2025/08/28	22:05:29	15.5000	1874.734	70.165
2025/08/28	22:11:29	15.6000	1874.142	70.237
2025/08/28	22:17:29	15.7000	1873.634	70.308
2025/08/28	22:23:29	15.8000	1873.111	70.376
2025/08/28	22:29:29	15.9000	1872.668	70.443
2025/08/28	22:35:29	16.0000	1872.170	70.507
2025/08/28	22:41:29	16.1000	1871.891	70.583
2025/08/28	22:47:29	16.2000	1871.477	70.632
2025/08/28	22:53:29	16.3000	1871.113	70.691
2025/08/28	22:59:29	16.4000	1870.789	70.759
2025/08/28	23:05:29	16.5000	1870.466	70.813
2025/08/28	23:11:29	16.6000	1870.183	70.873
2025/08/28	23:17:29	16.7000	1869.923	70.929
2025/08/28	23:23:29	16.8000	1869.643	70.981
2025/08/28	23:29:29	16.9000	1869.371	71.035
2025/08/28	23:35:29	17.0000	1869.117	71.083
2025/08/28	23:41:29	17.1000	1868.880	71.130
2025/08/28	23:47:29	17.2000	1868.678	71.179
2025/08/28	23:53:29	17.3000	1868.463	71.224
2025/08/28	23:59:29	17.4000	1868.233	71.276
2025/08/29	00:05:29	17.5000	1868.043	71.319
2025/08/29	00:11:29	17.6000	1867.858	71.364
2025/08/29	00:17:29	17.7000	1867.666	71.404
2025/08/29	00:23:29	17.8000	1867.511	71.458
2025/08/29	00:29:29	17.9000	1867.325	71.490
2025/08/29	00:35:29	18.0000	1867.152	71.532
2025/08/29	00:41:29	18.1000	1867.003	71.571
2025/08/29	00:47:29	18.2000	1866.826	71.609
2025/08/29	00:53:29	18.3000	1866.689	71.647
2025/08/29	00:59:29	18.4000	1866.557	71.685
2025/08/29	01:05:29	18.5000	1866.401	71.712
2025/08/29	01:11:29	18.6000	1866.252	71.751

Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/29	01:17:29	18.7000	1866.115	71.782
2025/08/29	01:23:29	18.8000	1865.991	71.811
2025/08/29	01:29:29	18.9000	1865.873	71.845
2025/08/29	01:35:29	19.0000	1865.712	71.874
2025/08/29	01:41:29	19.1000	1865.619	71.910
2025/08/29	01:47:29	19.2000	1865.510	71.940
2025/08/29	01:53:29	19.3000	1865.401	71.969
2025/08/29	01:59:29	19.4000	1865.274	71.998
2025/08/29	02:05:29	19.5000	1865.163	72.025
2025/08/29	02:11:29	19.6000	1865.059	72.052
2025/08/29	02:17:29	19.7000	1864.940	72.079
2025/08/29	02:23:29	19.8000	1864.836	72.104
2025/08/29	02:29:29	19.9000	1864.750	72.129
2025/08/29	02:35:29	20.0000	1864.633	72.153
2025/08/29	02:41:29	20.1000	1864.550	72.181
2025/08/29	02:47:29	20.2000	1864.441	72.196
2025/08/29	02:53:29	20.3000	1864.388	72.230
2025/08/29	02:59:29	20.4000	1864.300	72.255
2025/08/29	03:05:29	20.5000	1864.200	72.275
2025/08/29	03:11:29	20.6000	1864.088	72.293
2025/08/29	03:17:29	20.7000	1864.019	72.316
2025/08/29	03:23:29	20.8000	1863.936	72.334
2025/08/29	03:29:29	20.9000	1863.857	72.360
2025/08/29	03:35:29	21.0000	1863.765	72.370
2025/08/29	03:41:29	21.1000	1863.700	72.397
2025/08/29	03:47:29	21.2000	1863.620	72.415
2025/08/29	03:53:29	21.3000	1863.545	72.435
2025/08/29	03:59:29	21.4000	1863.458	72.450
2025/08/29	04:05:29	21.5000	1863.400	72.471
2025/08/29	04:11:29	21.6000	1863.335	72.489
2025/08/29	04:17:29	21.7000	1863.232	72.505
2025/08/29	04:23:29	21.8000	1863.191	72.525
2025/08/29	04:29:29	21.9000	1863.122	72.543
2025/08/29	04:35:29	22.0000	1863.079	72.563
2025/08/29	04:41:29	22.1000	1862.995	72.572
2025/08/29	04:47:29	22.2000	1862.931	72.586
2025/08/29	04:53:29	22.3000	1862.862	72.604
2025/08/29	04:59:29	22.4000	1862.812	72.624
2025/08/29	05:05:29	22.5000	1862.750	72.635
2025/08/29	05:11:29	22.6000	1862.673	72.648
2025/08/29	05:17:29	22.7000	1862.624	72.664
2025/08/29	05:23:29	22.8000	1862.549	72.671
2025/08/29	05:29:29	22.9000	1862.474	72.684
2025/08/29	05:35:29	23.0000	1862.440	72.703
2025/08/29	05:41:29	23.1000	1862.403	72.718
2025/08/29	05:47:29	23.2000	1862.334	72.732
2025/08/29	05:53:29	23.3000	1862.276	72.745
2025/08/29	05:59:29	23.4000	1862.223	72.759
2025/08/29	06:05:29	23.5000	1862.182	72.768
2025/08/29	06:11:29	23.6000	1862.125	72.779

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/29	06:17:29	23.7000	1862.068	72.795
2025/08/29	06:23:29	23.8000	1862.022	72.801
2025/08/29	06:29:29	23.9000	1861.975	72.819
2025/08/29	06:35:29	24.0000	1861.935	72.829
2025/08/29	06:41:29	24.1000	1861.880	72.840
2025/08/29	06:47:29	24.2000	1861.821	72.849
2025/08/29	06:53:29	24.3000	1861.775	72.855
2025/08/29	06:59:29	24.4000	1861.740	72.871
2025/08/29	07:05:29	24.5000	1861.679	72.874
2025/08/29	07:11:29	24.6000	1861.640	72.891
2025/08/29	07:17:29	24.7000	1861.601	72.901
2025/08/29	07:23:29	24.8000	1861.569	72.914
2025/08/29	07:29:29	24.9000	1861.523	72.923
2025/08/29	07:35:29	25.0000	1861.470	72.932
2025/08/29	07:41:29	25.1000	1861.420	72.937
2025/08/29	07:47:29	25.2000	1861.376	72.945
2025/08/29	07:53:29	25.3000	1861.356	72.957
2025/08/29	07:59:29	25.4000	1861.295	72.963
2025/08/29	08:05:29	25.5000	1861.261	72.977
2025/08/29	08:11:29	25.6000	1861.230	72.982
2025/08/29	08:17:29	25.7000	1861.181	72.995
2025/08/29	08:23:29	25.8000	1861.135	72.997
2025/08/29	08:29:29	25.9000	1861.135	73.011
2025/08/29	08:35:29	26.0000	1861.076	73.020
2025/08/29	08:41:29	26.1000	1861.022	73.022
2025/08/29	08:47:29	26.2000	1861.006	73.033
2025/08/29	08:53:29	26.3000	1860.960	73.040
2025/08/29	08:59:29	26.4000	1860.927	73.053
2025/08/29	09:05:29	26.5000	1860.869	73.053
2025/08/29	09:11:29	26.6000	1860.845	73.062
2025/08/29	09:17:29	26.7000	1860.810	73.069
2025/08/29	09:23:29	26.8000	1860.766	73.076
2025/08/29	09:29:29	26.9000	1860.752	73.083
2025/08/29	09:35:29	27.0000	1860.699	73.089
2025/08/29	09:41:29	27.1000	1860.668	73.096
2025/08/29	09:47:29	27.2000	1860.618	73.101
2025/08/29	09:53:29	27.3000	1860.596	73.108
2025/08/29	09:59:29	27.4000	1860.587	73.117
2025/08/29	10:05:29	27.5000	1860.521	73.123
2025/08/29	10:11:29	27.6000	1860.505	73.134
2025/08/29	10:17:29	27.7000	1860.478	73.141
2025/08/29	10:23:29	27.8000	1860.444	73.144
2025/08/29	10:29:29	27.9000	1860.379	73.144
2025/08/29	10:35:29	28.0000	1860.361	73.150
2025/08/29	10:41:29	28.1000	1860.341	73.161
2025/08/29	10:47:29	28.2000	1860.321	73.170
2025/08/29	10:53:29	28.3000	1860.263	73.170
2025/08/29	10:59:29	28.4000	1860.242	73.175
2025/08/29	11:05:29	28.5000	1860.207	73.180
2025/08/29	11:11:29	28.6000	1860.186	73.188

Company Name Republic Services
Well Name Facility Well # 2-12
Type of Test Injection/Fall-Off
Date(s) of Test August 28, 2025 thru August 29, 2025

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2025/08/29	11:17:29	28.7000	1860.155	73.197
2025/08/29	11:23:29	28.8000	1860.109	73.198
2025/08/29	11:29:29	28.9000	1860.113	73.209
2025/08/29	11:35:29	29.0000	1860.074	73.213
2025/08/29	11:41:29	29.1000	1860.041	73.216
2025/08/29	11:47:29	29.2000	1859.997	73.222
2025/08/29	11:53:29	29.3000	1859.983	73.224
2025/08/29	11:59:29	29.4000	1859.951	73.236
2025/08/29	12:05:29	29.5000	1859.911	73.234
2025/08/29	12:11:29	29.6000	1859.875	73.236
2025/08/29	12:17:29	29.7000	1859.855	73.242
2025/08/29	12:23:29	29.8000	1859.828	73.249
2025/08/29	12:29:29	29.9000	1859.804	73.254
2025/08/29	12:35:29	30.0000	1859.775	73.263
2025/08/29	12:41:29	30.1000	1859.776	73.269
2025/08/29	12:47:29	30.2000	1859.744	73.270
2025/08/29	12:53:29	30.3000	1859.699	73.272
2025/08/29	12:59:29	30.4000	1859.682	73.281
2025/08/29	13:05:29	30.5000	1859.640	73.281
2025/08/29	13:11:29	30.6000	1859.623	73.283
2025/08/29	13:17:29	30.7000	1859.580	73.285
2025/08/29	13:23:29	30.8000	1859.582	73.299
2025/08/29	13:29:29	30.9000	1859.543	73.299
2025/08/29	13:35:29	31.0000	1859.514	73.297
2025/08/29	13:41:29	31.1000	1859.486	73.305
2025/08/29	13:47:29	31.2000	1859.451	73.305
2025/08/29	13:53:29	31.3000	1859.441	73.314
2025/08/29	13:59:29	31.4000	1859.414	73.317
2025/08/29	14:05:29	31.5000	1859.395	73.319
2025/08/29	14:11:29	31.6000	1859.357	73.323
2025/08/29	14:17:29	31.7000	1859.333	73.326
2025/08/29	14:23:29	31.8000	1859.303	73.335
2025/08/29	14:29:29	31.9000	1859.287	73.341
2025/08/29	14:35:29	32.0000	1859.267	73.344
2025/08/29	14:41:29	32.1000	1859.262	73.351
2025/08/29	14:47:29	32.2000	1859.227	73.355
2025/08/29	14:53:29	32.3000	1859.189	73.353
2025/08/29	14:59:29	32.4000	1859.155	73.355
2025/08/29	15:05:29	32.5000	1859.159	73.366
2025/08/29	15:11:29	32.6000	1859.138	73.368
2025/08/29	15:17:29	32.7000	1859.104	73.369
2025/08/29	15:23:29	32.8000	1859.083	73.369
2025/08/29	15:29:29	32.9000	1859.065	73.377
2025/08/29	15:35:29	33.0000	1859.024	73.377
2025/08/29	15:41:29	33.1000	1859.009	73.384
2025/08/29	15:47:29	33.2000	1858.991	73.384
2025/08/29	15:53:29	33.3000	1858.972	73.387
2025/08/29	15:59:29	33.4000	1858.950	73.393
POOH Gradient: 3975.000 ft				
2025/08/29	15:59:59	33.4083	1858.936	73.387

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
End of Fall-Off Test				
2025/08/29	16:00:04	33.4097	1858.946	73.393
P.O.O.H. making gradient stops				
2025/08/29	16:00:09	33.4111	1858.973	73.400
Stop at 3000 feet				
2025/08/29	16:03:29	33.4667	1436.523	75.569
2025/08/29	16:05:29	33.5000	1436.198	74.178
POOH Gradient: 3000.000 ft				
2025/08/29	16:08:29	33.5500	1436.096	73.897
2025/08/29	16:11:29	33.6000	1029.103	65.881
Stop at 2000 feet				
2025/08/29	16:11:44	33.6042	1003.615	65.017
POOH Gradient: 2000.000 ft				
2025/08/29	16:15:44	33.6708	1002.615	62.911
2025/08/29	16:17:29	33.7000	909.078	62.595
Stop at 1000 feet				
2025/08/29	16:19:29	33.7333	569.759	60.013
2025/08/29	16:23:29	33.8000	569.455	58.847
POOH Gradient: 1000.000 ft				
2025/08/29	16:24:24	33.8153	569.454	58.809
2025/08/29	16:29:29	33.9000	156.929	58.489
Stop at 0 feet				
2025/08/29	16:30:04	33.9097	137.132	60.454
POOH Gradient: 0.000 ft				
2025/08/29	16:35:14	33.9958	136.903	66.747
2025/08/29	16:35:29	34.0000	136.916	66.810
Gauges in lubricator				
2025/08/29	16:36:04	34.0097	134.985	67.357
Bleed Off Lubricator				
2025/08/29	16:37:29	34.0333	135.567	70.387
2025/08/29	16:41:29	34.1000	0.997	73.611
2025/08/29	16:47:29	34.2000	1.158	73.139

APPENDIX K

EPA PRESSURE FALLOFF TEST FORM



BACKGROUND INFORMATION FOR ANALYSIS OF PRESSURE FALL-OFF TEST

FACILITY NAME Republic Industrial and Energy Solutions, LLC		OPERATOR Republic Industrial and Energy Solutions, LLC	
WELL NAME #2-12		USEPA PERMIT NUMBER MI-163-1W-C0011	STATE PERMIT NUMBER M-453
TEST START DATE August 28, 2025	TEST END DATE August 29, 2025	Depth Reference: Kelly Bushing <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/>	

GEOLOGICAL DATA

POROSITY, decimal 0.11	NET PERMEABLE THICKNESS, ft. 133	VISCOSITY, cp. 1.34	COMPRESSIBILITY, per psi 6.20E-006
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WELL AND OPERATION DATA

LONGSTRING CASING DIAMETER, in 7	FINAL PRETEST FLOW RATE, gpm 43.28	INJECTATE TEMPERATURE, deg.F 68.58	KB ELEVATION, ft 626.6
OPEN HOLE DIAMTER, ins 8.75	PRETEST FLOW TIME, hrs. SEE BELOW 12.13	SPECIFIC GRAVITY OF TEST FLUID 1	TEST DEPTH FOR COMPARISON, ft
GAUGE DEPTH, ft 3975	CUMULATIVE VOLUME INJECTED SINCE LAST PRESSURE EQUALIZATION, 09/09/25 - 09/27/25 12,528,180		

TEST DATA

GAUGE CALIBRATION DATE October 10, 2024			
FLOW RATE, gpm 43.28	PRESSURE AT BEGINNING OF FALL-OFF, p 2035.78	PRESSURE AT END OF FALL-OFF, ps 1873.73	TO SUPPORT FULL COLUMN, psi 1721.18
TEST LENGTH, hrs. 19.43	INITIAL GRADIENT, psi/ft.	FINAL GRADIENT, psi/ft. 0.433	FINAL FLUID LEVEL, ft. 0

REMEMBER

"Pre-test flow time" is the time since the reservoir was last in equilibrium. This may be the time since the well was last shut-in but only if the well was shut-in long enough for the pressure in the reservoir to approach equilibrium pressure.

1. Please fill in the above cells.
2. Injection of normal injectate at normal rate is preferred.
3. Submit an up-to-date well schematic.
4. The well should be shut-in as quickly as possible.
5. Data should be collected at the maximum rate for at least the first five minutes; between five and thirty minutes at no less than one reading every 30 seconds. After thirty minutes, the operator can reduce frequency as required.
6. The pressure gauge should have been calibrated no more than a year prior to the test. Submit a copy of the calibration certificate for the gauge used for pressure measurements with your report.
7. The report on the test must explain any anomalies shown in the results.
8. Submit digital logging data on a CD in .las or .asc format.

APPENDIX L

**STATIC PRESSURE GRADIENT SURVEY
(ABRIDGED)**



Static Pressure Gradient Survey Data

Well Name: Well 2-12
 Operating Company: Republic Industrial and Energy Solutions, LLC
 Well Location: Romulus, MI
 Wireline Company: Impact Completions, LLC
 Downhole Data Recorder: MRO 2 Serial No. 91874

Job Number: 192128UES.7160
 WSP Rep.: Gabriel Holmes
 Data Start: 8/29/25 15:56:59
 Data End: 8/29/25 16:32:29
 Data Interval (secs): 15

Date/Time	Pressure, psig	Temperature, °F	Date/Time	Pressure, psig	Temperature, °F	Date/Time	Pressure, psig	Temperature, °F
8/29/25 15:56:59	1858.967	73.394	8/29/25 16:13:14	1002.764	63.312	8/29/25 16:29:29	156.929	58.488
8/29/25 15:57:14	1858.962	73.386	8/29/25 16:13:29	1002.742	63.236	8/29/25 16:29:44	140.683	59.004
8/29/25 15:57:29	1858.968	73.394	8/29/25 16:13:44	1002.679	63.174	8/29/25 16:29:59	137.128	59.980
8/29/25 15:57:44	1858.968	73.392	8/29/25 16:13:59	1002.641	63.122	8/29/25 16:30:14	137.092	61.294
8/29/25 15:57:59	1858.962	73.393	8/29/25 16:14:14	1002.666	63.062	8/29/25 16:30:29	137.068	62.262
8/29/25 15:58:14	1858.947	73.389	8/29/25 16:14:29	1002.630	63.042	8/29/25 16:30:44	137.009	62.972
8/29/25 15:58:29	1858.965	73.393	8/29/25 16:14:44	1002.602	63.012	8/29/25 16:30:59	137.035	63.512
8/29/25 15:58:44	1858.965	73.391	8/29/25 16:14:59	1002.603	62.982	8/29/25 16:31:14	137.060	63.956
8/29/25 15:58:59	1858.962	73.393	8/29/25 16:15:14	1002.587	62.955	8/29/25 16:31:29	137.079	64.539
8/29/25 15:59:14	1858.938	73.389	8/29/25 16:15:29	1002.639	62.934	8/29/25 16:31:44	137.028	64.845
8/29/25 15:59:29	1858.960	73.392	8/29/25 16:15:44	1002.615	62.911	8/29/25 16:31:59	136.975	64.939
8/29/25 15:59:44	1858.944	73.391	8/29/25 16:15:59	1002.595	62.884	8/29/25 16:32:14	136.983	65.189
8/29/25 15:59:59	1858.936	73.388	8/29/25 16:16:14	1002.580	62.868	8/29/25 16:32:29	136.992	65.405
8/29/25 16:00:14	1858.969	73.397	8/29/25 16:16:29	1002.574	62.853	8/29/25 16:32:44	136.992	65.608
8/29/25 16:00:29	1859.032	73.392	8/29/25 16:16:44	1002.577	62.842	8/29/25 16:32:59	136.965	65.778
8/29/25 16:00:44	1849.646	73.394	8/29/25 16:16:59	985.121	62.814	8/29/25 16:33:14	136.970	65.938
8/29/25 16:00:59	1821.661	73.711	8/29/25 16:17:14	948.958	62.720	8/29/25 16:33:29	136.968	66.070
8/29/25 16:01:14	1784.596	74.944	8/29/25 16:17:29	909.078	62.595	8/29/25 16:33:44	136.921	66.203
8/29/25 16:01:29	1743.409	76.231	8/29/25 16:17:44	867.943	62.377	8/29/25 16:33:59	136.918	66.318
8/29/25 16:01:44	1702.326	77.105	8/29/25 16:17:59	826.915	62.079			
8/29/25 16:01:59	1661.709	77.530	8/29/25 16:18:14	783.524	61.777			
8/29/25 16:02:14	1620.214	77.608	8/29/25 16:18:29	738.791	61.503			
8/29/25 16:02:29	1579.257	77.424	8/29/25 16:18:44	694.875	61.226			
8/29/25 16:02:44	1538.430	77.031	8/29/25 16:18:59	650.051	60.864			
8/29/25 16:02:59	1497.705	76.605	8/29/25 16:19:14	605.108	60.458			
8/29/25 16:03:14	1454.749	76.124	8/29/25 16:19:29	559.760	60.013			
8/29/25 16:03:29	1436.523	75.588	8/29/25 16:19:44	569.807	59.648			
8/29/25 16:03:44	1436.401	75.094	8/29/25 16:19:59	569.551	59.433			
8/29/25 16:03:59	1436.500	74.804	8/29/25 16:20:14	569.552	59.291			
8/29/25 16:04:14	1436.383	74.609	8/29/25 16:20:29	569.533	59.194			
8/29/25 16:04:29	1436.353	74.468	8/29/25 16:20:44	569.522	59.123			
8/29/25 16:04:44	1436.246	74.366	8/29/25 16:20:59	569.502	59.074			
8/29/25 16:04:59	1436.234	74.297	8/29/25 16:21:14	569.483	59.025			
8/29/25 16:05:14	1436.221	74.228	8/29/25 16:21:29	569.476	58.996			
8/29/25 16:05:29	1436.198	74.178	8/29/25 16:21:44	569.490	58.963			
8/29/25 16:05:44	1436.152	74.142	8/29/25 16:21:59	569.483	58.939			
8/29/25 16:05:59	1436.160	74.104	8/29/25 16:22:14	569.474	58.920			
8/29/25 16:06:14	1436.122	74.075	8/29/25 16:22:29	569.471	58.903			
8/29/25 16:06:29	1436.081	74.043	8/29/25 16:22:44	569.460	58.887			
8/29/25 16:06:44	1436.066	74.020	8/29/25 16:22:59	569.460	58.873			
8/29/25 16:06:59	1436.042	73.997	8/29/25 16:23:14	569.461	58.863			
8/29/25 16:07:14	1436.063	73.975	8/29/25 16:23:29	569.455	58.848			
8/29/25 16:07:29	1436.130	73.960	8/29/25 16:23:44	569.439	58.829			
8/29/25 16:07:44	1436.123	73.948	8/29/25 16:23:59	569.451	58.828			
8/29/25 16:07:59	1436.099	73.929	8/29/25 16:24:14	569.454	58.821			
8/29/25 16:08:14	1436.073	73.905	8/29/25 16:24:29	569.448	58.806			
8/29/25 16:08:29	1436.096	73.897	8/29/25 16:24:44	569.457	58.801			
8/29/25 16:08:44	1436.076	73.878	8/29/25 16:24:59	569.465	58.795			
8/29/25 16:08:59	1436.081	73.864	8/29/25 16:25:14	569.459	58.786			
8/29/25 16:09:14	1410.735	73.838	8/29/25 16:25:29	569.455	58.780			
8/29/25 16:09:29	1373.966	73.602	8/29/25 16:25:44	569.448	58.769			
8/29/25 16:09:44	1333.875	73.015	8/29/25 16:25:59	569.447	58.762			
8/29/25 16:09:59	1290.857	72.162	8/29/25 16:26:14	568.797	58.755			
8/29/25 16:10:14	1247.825	71.119	8/29/25 16:26:29	540.471	58.768			
8/29/25 16:10:29	1204.942	70.048	8/29/25 16:26:44	503.034	58.706			
8/29/25 16:10:44	1161.852	69.000	8/29/25 16:26:59	463.891	58.664			
8/29/25 16:10:59	1117.403	67.950	8/29/25 16:27:14	423.609	58.516			
8/29/25 16:11:14	1073.449	66.917	8/29/25 16:27:29	380.218	58.254			
8/29/25 16:11:29	1029.103	65.882	8/29/25 16:27:44	336.932	58.008			
8/29/25 16:11:44	1003.615	65.017	8/29/25 16:27:59	293.635	57.722			
8/29/25 16:11:59	1003.273	64.380	8/29/25 16:28:14	250.329	57.563			
8/29/25 16:12:14	1003.112	63.986	8/29/25 16:28:29	234.016	57.540			
8/29/25 16:12:29	1003.023	63.729	8/29/25 16:28:44	208.635	57.619			
8/29/25 16:12:44	1002.923	63.550	8/29/25 16:28:59	191.001	57.786			
8/29/25 16:12:59	1002.817	63.415	8/29/25 16:29:14	173.978	58.020			

ATTACHMENTS



ATTACHMENT 1

RAW PRESSURE AND TEMPERATURE DATA FROM FALLOFF AND STATIC PRESSURE GRADIENT (08-28-25 - 08-29-25)



ATTACHMENT 2

WELL 2-12 RAT SURVEY – 5 CHASE PASSES (08-26-25).LAS



ATTACHMENT 3

WELL 2-12 RAT SURVEY - TIME-DRIVE (08-26-25).LAS



ATTACHMENT 4

**WELL 2-12 RAT SURVEY - BASE_FINAL PASSES (08-26-
25).LAS**

