2023 MECHANICAL INTEGRITY TESTING AND PRESSURE FALLOFF TESTING REPORT REPUBLIC INDUSTRIAL & ENERGY SOLUTIONS, LLC

WELL NO. 1-12

API No. 21-163-M452 EPA Permit No. MI-163-1W-C0010 Michigan EGLE Permit No. M-452 Romulus, MI

October 2023

Baton Rouge, LA



Project No. 192128AP

Prepared by Jeffry Tahtouh and Troy Gillen Reviewed by Steve Kelly

TABLE OF CONTENTS

<u>SECTION</u> PAGE

1.0 INTRODUCTION	1
2.0 REPORT OF FIELD OPERATIONS	2
3.0 ANNULUS PRESSURE TEST	3
4.0 RADIOACTIVE TRACER SURVEY	4
5.0 PRESSURE FALLOFF ANALYSIS	5
6.0 BOTTOM-HOLE PRESSURE MEASUREMENT AND STATIC GRADIENT SURVEY	10
7.0 CONCLUSIONS	11

TABLES

- TABLE 1:
 RADIOACTIVE TRACER SURVEY CHASE PASS SUMMARY
- TABLE 2: GENERAL WELL AND RESERVOIR INFORMATION
- TABLE 3:DATA SUMMARY FOR INJECTION PERIOD
- TABLE 4:DATA SUMMARY FOR FALLOFF PERIOD
- TABLE 5:CALCULATED TEST DATA
- TABLE 6:
 SUMMARY OF PRESSURE FALLOFF ANALYSIS
- TABLE 7:
 SUMMARY OF STATIC PRESSURE GRADIENT DATA

FIGURES

- FIGURE 1: WELL 1-12 WELLHEAD SCHEMATIC
- FIGURE 2: WELL 1-12 BELOW GROUND SCHEMATIC
- FIGURE 3: ANNULUS PRESSURE TEST PLOT
- FIGURE 4: TEST OVERVIEW
- FIGURE 5: CARTESIAN PLOT
- FIGURE 6: LOG-LOG PLOT
- FIGURE 7: RADIAL FLOW PLOT
- FIGURE 8: EXPANDED VIEW OF RADIAL FLOW PLOT
- FIGURE 9: STATIC PRESSURE GRADIENT SURVEY



APPENDICES

- A. REGULATORY CORRESPONDENCE
- B. CHRONOLOGY OF FIELD ACTIVITIES
- C. ANNULUS PRESSURE TEST DATA
- D. CALIBRATION CERTIFICATES
- E. EPA STANDARD ANNULAR PRESSURE TEST FORM
- F. EPA RADIOACTIVE TRACER SURVEY FORM
- G. RAW PRESSURE AND TEMPERATURE DATA (ABRIDGED)
- H. PANSYSTEM© ANALYSIS OF FALLOFF TEST
- I. PRESSURE TEST REPORT DATA
- J. EPA PRESSURE FALLOFF TEST FORM
- K. STATIC PRESSURE GRADIENT SURVEY (ABRIDGED)

EXHIBITS

EXHIBIT 1: RADIOACTIVE TRACER SURVEY

ATTACHMENTS

USB FLASH DRIVE CONTAINING:

ATTACHMENT 1:	RAW PRESSURE AND TEMPERATURE DATA FROM FALLOFF AND STATIC PRESSURE GRADIENT (09-07-23 – 09-09-23)
ATTACHMENT 2:	WELL 1-12 RAT SURVEY - 4 CHASE PASSES (09-05-23).LAS
ATTACHMENT 3:	WELL 1-12 RAT SURVEY - TIME-DRIVE (09-05-23).LAS
ATTACHMENT 4:	WELL 1-12 RAT SURVEY - BASE_FINAL PASSES (09-05-23).LAS



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-C010 granted to Republic Industrial and Energy Solutions, LLC (Republic) and with the State of Michigan Administrative Rule R299.2393 (MI Permit #M-452) the annual mechanical integrity testing was performed on Well No. 1-12 on August 11 and September 5, 2023 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. 1-12 at Republic's facility in Romulus, MI. The mechanical integrity tests included a Radioactive Tracer 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. 1-12 to assist in evaluating the injection zone. A chronology of field activities is included as Appendix B. Wellhead and wellbore schematics of Well No. 1-12 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. 1-12. A wellbore schematic of Well 1-12 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 11, 2023, 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 Emma Atkinson with Michigan EGLE-OGMD witnessed and passed the test. The annulus pressure test results are detailed in Section 3.0.

Field wireline operations began on September 5, 2023, when Michigan Wireline spotted and rigged up on the well with Casing Collar Locator (CCL) and Radioactive Tracer tools. A radioactive tracer survey (RTS) was run on September 5, 2023. A pre-survey base log and 5-minute statistical checks were ran with no injection. Injection was initiated at 42 gallons (gpm), then a slug of radioactive material was released at 3100 feet. A dissipated slug was located at approximately 4291 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 4050 feet to observe the slug passing by and monitor for any upward migration. The time-drive survey was conducted for approximately 30 minutes at 42 gpm and 487 psi injection pressure. To conclude the RTS, the well was shutin and the post-survey log was run. The radioactive tracer survey results are detailed in Section 4.0.

On September 7, 2023, Impact Completions spotted and rigged up slickline with memory-type bottomhole pressure gauges. The memory gauges were run downhole and set at 4080 feet (top gauge at 4078 feet). Injection was initiated at 2029 hours. Republic began to discontinue injection of plant effluent into Well 1-12 at 0746 hours on September 8, 2023. The pressure falloff was monitored for approximately 23.3 hours and was concluded on September 9, 2023. While pulling the gauges out of the well, static pressure gradient stops were made at 4000 feet, 3000 feet, 2000 feet, 1000 feet, and at the surface. Well 2-12 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.

wsp

3.0 ANNULUS PRESSURE TEST

An Annulus Pressure Test (APT) was conducted on Well #1-12 on Monday, August 11, 2023, with JoAnne Mitock with Environmental Solutions AQ (support for USEPA Region 5) and Emma Atkinson with Michigan EGLE-OGMD witnessed and passed the test. Between 03:28 PM and 03:30 PM, the annulus pressure was increased from 983.49 psig to 1181.07 psig. The official APT was started at 03:53 PM at a pressure of 1161.57 psig. One hour later at 04:53 PM, the annulus pressure had declined to 1144.61 psig which was a decrease of 16.96 psi (-1.46%) and within the ±3%/hour allowed by the EPA Region 5.

A plot of the APT is provided as Figure 3, and a tabulate 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 RADIOACTIVE TRACER SURVEY

A Radioactive Tracer Survey was run in Well #1-12 on September 5, 2023. The survey was conducted using the facility's pump and fresh water. After correlating the log with the top of the packer set at 4032 feet, the tool tagged bottom at 4486 feet.

A Base Pass was made from 4486 feet to 2973 feet, and 5-minute statistical checks were made at 3802 feet and 3955 feet. While injecting into the well at 1 bbl/min (42 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 4291 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 42 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 4,041 feet and 4,050 feet, respectively. At 14:41:45 the slug passed by the upper gamma ray detector, and 16 seconds later at 14:42:01, the slug passed by the lower gamma ray detector. Approximately 40 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 15:13:55 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.

Injection was ceased. A final gamma ray pass was made from 4486 feet to 2988 feet following the timedrive survey. Above approximately 4220 feet, the final pass repeated the base pass with the upper and lower gamma ray detectors. Below 4250 feet, both gamma ray detectors averaged approximately 15 counts/sec higher on the final pass, indicating residual tracer material in the borehole. Some of this small increase may have been due to residual radioactive material in the borehole getting dispersed with movement of the tool.

A copy of the Radioactive Tracer Survey is included as Exhibit 1. Appendix F provides a completed EPA Radioactive Tracer Survey Form with background information of the Well #1-12 survey.

wsp

5.0 PRESSURE FALLOFF ANALYSIS

Pressure falloff testing was conducted on Well 1-12 from September 7, 2023, through September 9, 2023. 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 September 7, 2023, through shut-in. Well 1-12 had been shut in for approximately 48 hours prior to commencement of the buildup portion of the test. Injection began September 7, 2023 at 2029 hours, then continued for approximately 11.29 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 1-12 was shut in at 0746 hours on September 8, 2023 and remained shut-in for approximately 23.29 hours while the bottom-hole pressure and temperature were recorded. Appendix G 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 H. Impact Completion's pressure test report is presented as Appendix I. A completed EPA Pressure Falloff Test Form is provided in Appendix J.

Figure 4 shows the pressure response recorded by the bottom-hole pressure tool from the time the tool was in place through the 23.29-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 0.89 hours and continues until an elapsed time following shut-in of 2.92 hours. The radial flow regime is indicated on Figure 7.

wsp

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 13.66 and continues until 4.88. Figure 8 shows an expanded view of the superposition Horner plot. The slope of the radial flow period was determined to be 19.989 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
В	=	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 14,084.3 md-ft/cp:

q	=	1731.43 barrels/day (50.5 gallons/minute)
m	=	19.989 psi/cycle
В	= 1.0 reservoir barrel/surface barrel	
kh		(173143)(10)

$$\frac{kh}{\mu} = 162.6 \frac{(1731.43)(1.0)}{19.989}$$
$$= 14,084.3 \text{ md-ft/cp}$$

The permeability-thickness, kh, was determined to be 18,872.9 md-ft by multiplying the mobility-thickness, kh/ μ , by the viscosity of the formation fluid viscosity, $\mu_{formation}$, of 1.34 centipoise:

$$kh = \left(\frac{kh}{\mu}\right)\mu_{waste}$$
$$= (14,084.3) (1.34)$$
$$= 18.872.9 \text{ md-ft}$$

The average reservoir permeability using the total thickness of 133 feet was determined to be 141.9 md:

$$k = \frac{(kh)}{h}$$

= $\frac{18,872.9}{133}$
= 141.9 md



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:

\mathbf{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:

$$t_{waste} = 948 \frac{\phi \,\mu_{waste} \,c_t \,r^2_{waste}}{k}$$

Where:

115

\mathbf{t}_{waste}	=	time for pressure transient to reach waste front, hours
ф	=	formation porosity, fraction
μ_{waste}	=	viscosity of the waste at reservoir conditions, centipoise
r _{waste}	=	radius to waste front, feet
Ct	=	total compressibility of the formation and fluid, psi
k	=	formation permeability, millidarcies
948	=	constant

Combining the previous two equations results in:

$$t_{waste} = 126.73 \frac{\mathrm{V}\,\mu_{\,waste}\,c_t}{\pi kh}$$

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 111,539,596 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 $6.20 \times 10^{-6} \text{ psi}^{-1}$. 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 1.18 hours:

$$t = 126.73 \frac{(111,539,596)(0.80)(6.20 \times 10^{-6})}{(\pi)(141.9)(133)}$$

= 1.18 hours

Since the radial flow period occurred from 0.89 to 2.92 hours elapsed time following shut-in, most of the regime occurred in the formation fluid (> 1.18 hours). Therefore, use of the formation fluid viscosity in the analysis is 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,

t
.t

The final flowing pressure was 2342.86 psia. The pressure determined by extrapolating the radial flow semi-log line to a Δt of one hour, p_{1hr} , was 1921.42 psia. The porosity of the injection interval, ϕ , is 0.11 and the total compressibility, c_t , is 6.2 x 10⁻⁶ psi⁻¹. The wellbore radius, r_w , is 0.3646 feet. Using these values in addition to the previously determined parameters, m and k, results in a skin of 17.55:

$$s = 1.151 \left[\frac{2342.86 - 1921.42}{19.989} - \log \left(\frac{141.9}{(0.11)(1.34)(6.2 \times 10^{-6})(0.3646)^2} \right) + 3.23 \right]$$

= 17.55

The change in pressure, Δp_{skin} , in the wellbore associated with the skin factor was determined to be 304.85 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:

115

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

 Δp_{skin} = 0.869 (19.989) (17.55) Δp_{skin} = 304.85 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, 2342.86 psia
p^*	=	pressure extrapolated to an infinite shut-in time from the straight-line portion of the
		radial flow plot, 1899.64 psia
Δp_{skin}	=	pressure change due to skin damage, 304.85 psi

Substituting these values, the flow efficiency was calculated to be 0.31:

$$E = \frac{2342.86 - 1899.64 - 304.85}{2342.86 - 1899.64}$$
$$= 0.31$$

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.

6.0 BOTTOM-HOLE PRESSURE MEASUREMENT AND STATIC GRADIENT SURVEY

On September 9, 2023, a static gradient survey was performed while pulling the pressure gauges out of the well. Gradient stops were made at 4000 feet, 3000 feet, 2000 feet, 1000 feet 500 feet, and at the surface. The bottom-hole pressure and temperature, after approximately 23.3 hours of shut-in at 4080 feet, were 1897.64 psia (1897.64 psia = 1882.94 psig + 14.7 psi) and 73.52 °F, respectively. The data printout for the static gradient survey is presented as Appendix K. A tabulation of the survey results is provided as Table 6. The data are depicted graphically in Figure 9.

7.0 CONCLUSIONS

In conclusion, Republic Well No. 1-12 has mechanical integrity in accordance with 40 CFR 146.08 a (1) and in accordance with U.S. EPA Permit Number MI-168-1W-C010, 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 11, 2023.
- 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 September 5, 2023.

With the submittal of this report, the ambient pressure monitoring and mechanical integrity testing conducted on Well 1-12 satisfies the United States Environmental Protection agency requirements which are included in the Class I UIC well permit number MI-163-1W-C0010

TABLES



TABLE 1

Chase Pass	Time Logged	Peak Slug Depth (ft KB)	Distance Traveled (ft)	Time Between Slugs (min)	Volume Between Slugs (gal)	Flow Rate (gpm)
1	13:43:53	3181.54				
2	13:48.37	3493.19	311.65	4.73	198.66	42
3	14:03:37	4119.84	626.65	15.00	630.00	42
4	14:27:28	4291.50	171.66	23.85	1001.70	42

.

•

RADIOACTIVE TRACER SURVEY CHASE PASS SUMMARY

TABLE 2 GENERAL TEST INFORMATION

PARAMETER	VALUE	SOURCE/JUSTIFICATION
Dates of test	September 7-9, 2023	
Time since reservoir pressure was last stabilized	24-48 hours (shut-in prior to buildup)	Republic plant records
Shut-in time prior to test	48 hours	Republic plant records
Stabilized pressure and temperature prior to test	N/A	
Cumulative injection into completed interval (gallons)	#1-1257,775,895 #2-1253,763,701 Total:111,539,596	Republic plant records
Wellbore Radius (inches)	4.375	Figures 1 and 2
Completed Intervals (feet KB)	4,121 – 4,645 MD / 4,024 – 4,536 TVD	Figures 1 and 2
Type of Completion	Open-Hole	Figures 1 and 2
Depth to Fill (feet KB)	4,486	Tracer Survey conducted 09/05/23
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 INJECTION PERIOD

PARAMETER	VALUE	SOURCE/JUSTIFICATION
Time of injection period (hours)	11.29 hours	Appendices 2 & 6 / Figure 3
Type of test fluid	Republic Storm Water	
Final Injection rate (gpm)	50.5	Appendices 2 & 6 / Figure 3
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	2,342.86 psia	Appendix H
Gauge temperature at shut-in	72.26 °F	Appendix H
Gauge type	Cal-Scan	Appendix D
Gauge model	Badger Tri Tool, SN 91874	Appendix D
Gauge sensitivity	Accuracy: (0.024% FS) Resolution: (0.0003% FS)	Appendix D
Gauge depth (feet KB)	4,080	Appendix B
Manufacturer's recommend gauge calibration frequency	Annual	Appendix D

TABLE 4 FALL-OFF PERIOD

PARAMETER	VALUE
Total shut-in time	23.29 hours
Final shut-in pressure	1,897.64 psia
Final shut-in temperature	73.52 °F

TABLE 5CALCULATED TEST DATA

CALCULATED PARAMETER	VALUE
Time to Waste Front (hours)	1.18
Time of Radial Flow Regime (hours)	0.89 – 2.92
Time to End of Wellbore Storage (hours)	0.0103
Radial Flow (Horner) Time at End of Wellbore Storage	1,106
Slope of Straight-Line Portion of Radial Flow Plot (psi/cycle)	19.989
Injection Reservoir Transmissibility (md-ft/cp)	14,084.3
Permeability (md)	141.9
Skin Factor (dimensionless)	17.55
Pressure Loss @ 50.5 gpm Due to Skin Damage (psi)	304.85
Flow Efficiency (fraction)	0.31

SOURCE	PARAMETER	1-12 VALUE	UNITS
Log-Log and Derivative Information	Total Shut-in Time	23.29	hours
	Derivative Smoothing Factor	0.070	
	Radial Flow Period (elapsed)	0.97 – 2.92	hours
Information from Superposition Plot	Slope of Semi-Log Straight Line	19.989	psi/cycle
	Pressure at Infinite Shut-in Time	1899.64	psia
	Pressure at 1-hour from Shut-in (Extrapolation of Semi-Log Straight Line)	1921.42	psia
Semi-Log Analysis	Mobility Thickness	14,081	md-ft/cp
	Permeability Thickness	18,868.6	md-ft
	Permeability	141.9	md
	Formation Skin Damage	17.59	-

TABLE 6SUMMARY OF PANSYSTEM FALL-OFF ANALYSIS

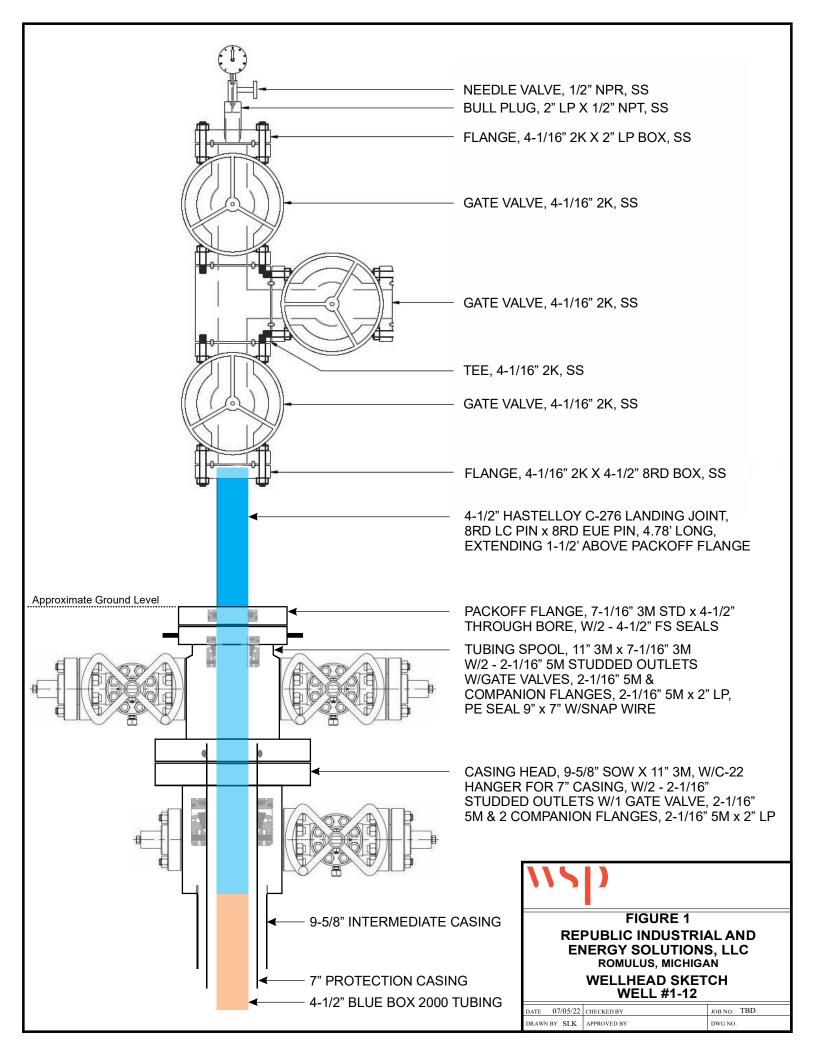
TABLE 7

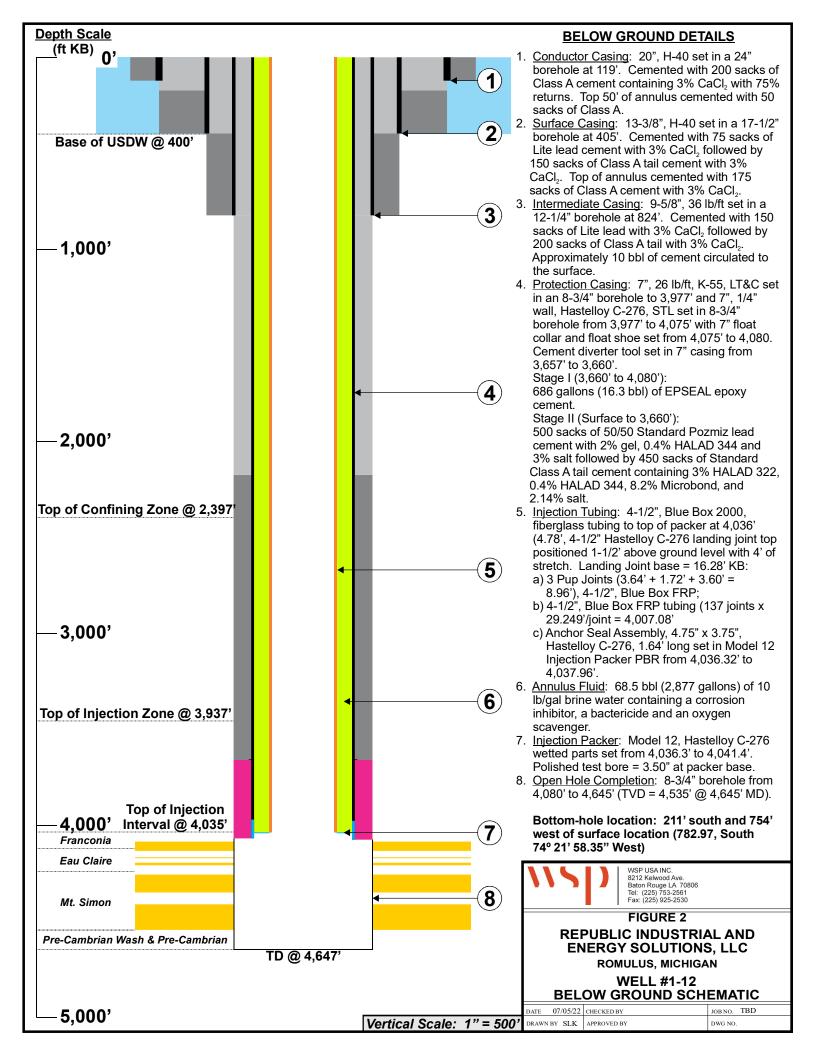
STATIC PRESSURE GRADIENT SURVEY WELL No. 1-12 September 9, 2023

Memory Gauge Serial No. 91874			
		Pressure	
Depth	Pressure	Gradient	Temperature
(feet)	(psig)	(psi/ft)	(°F)
0	145.30	-	62.23
1000	579.22	0.434	59.54
2000	1011.22	0.432	63.13
3000	1423.10	0.412	72.85
4000	1847.86	0.425	77.22
4080	1882.94	0.439	73.53

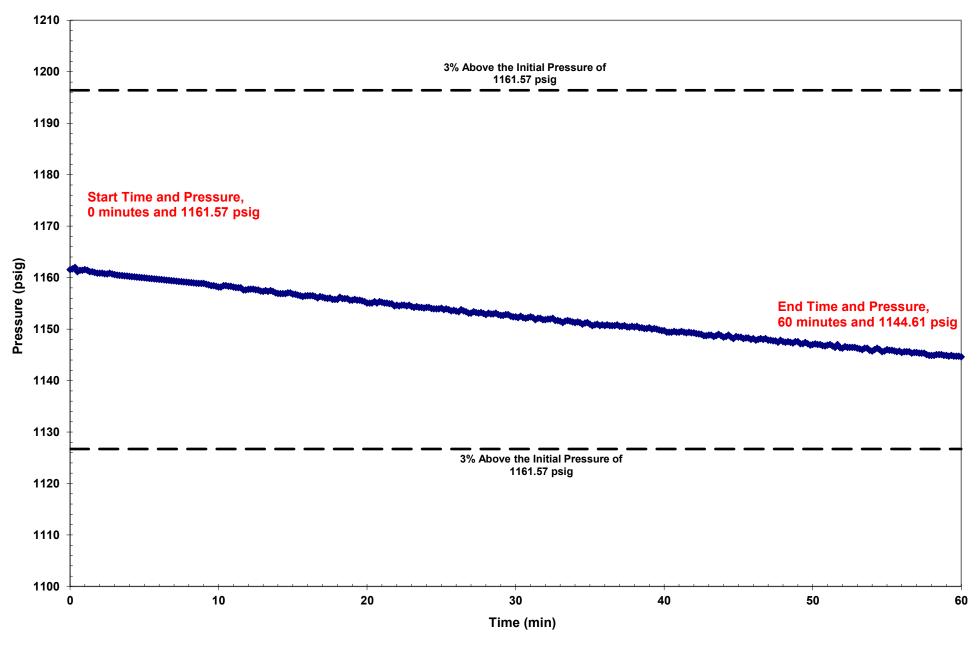
FIGURES

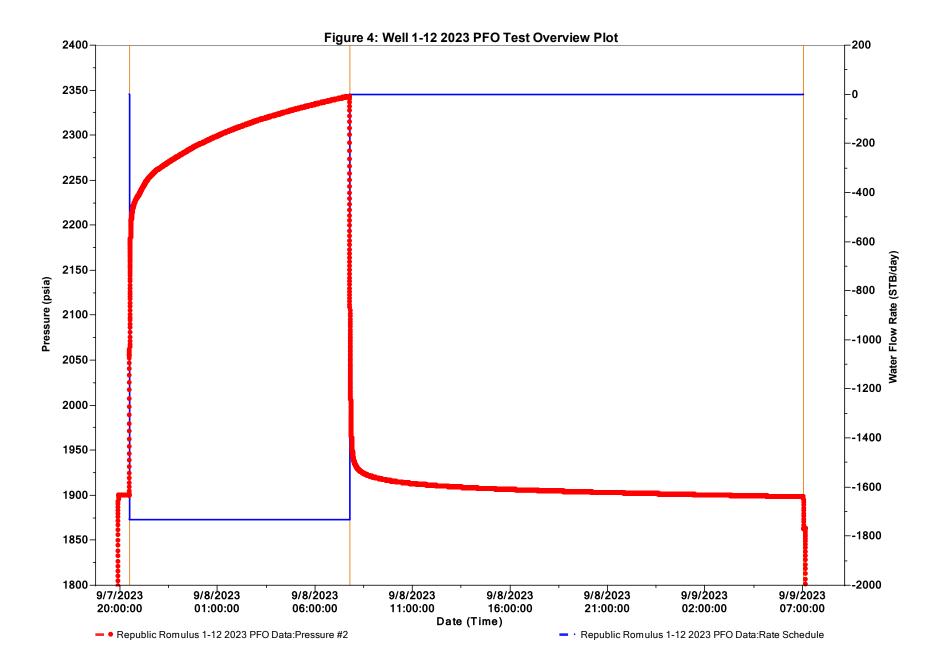


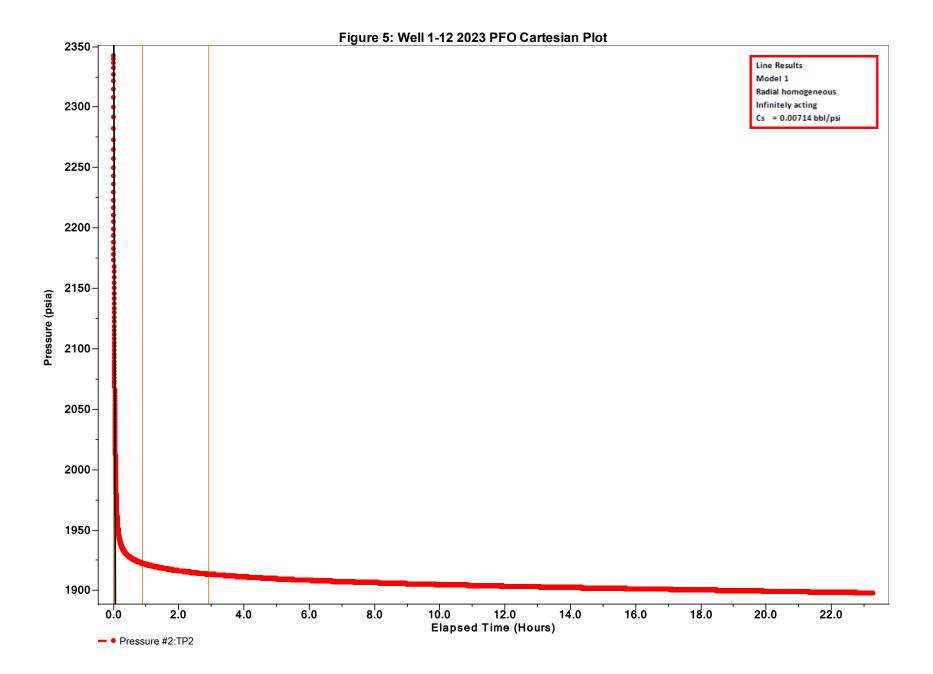


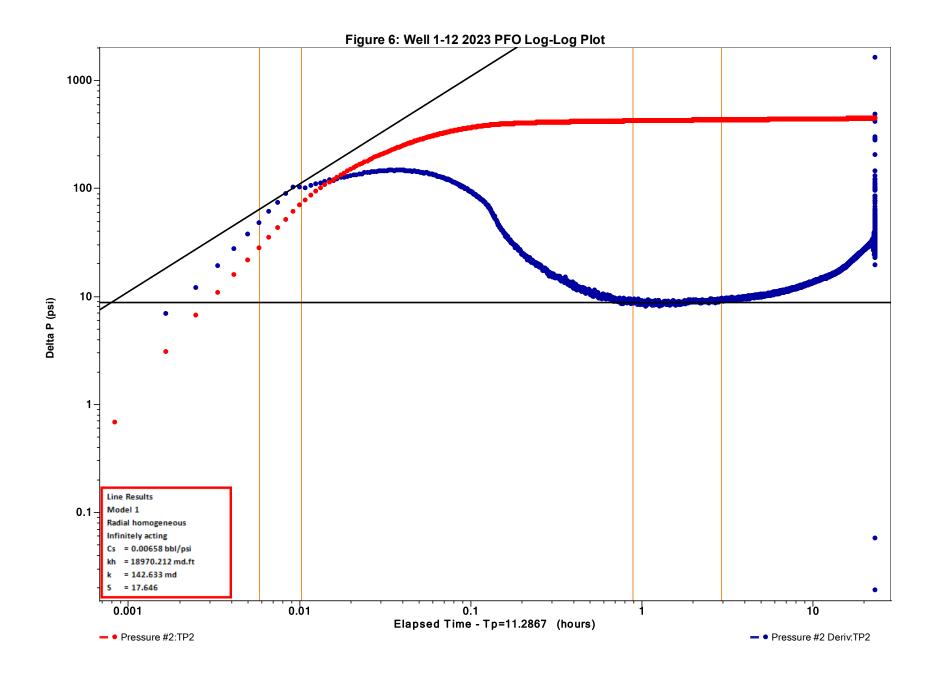


Annulus Pressure Test Well 1-12 August 11, 2023









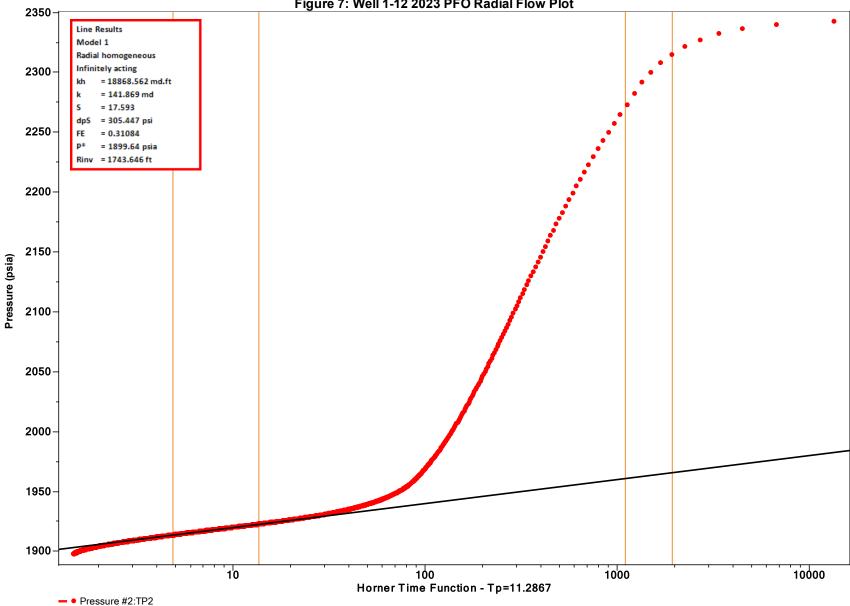
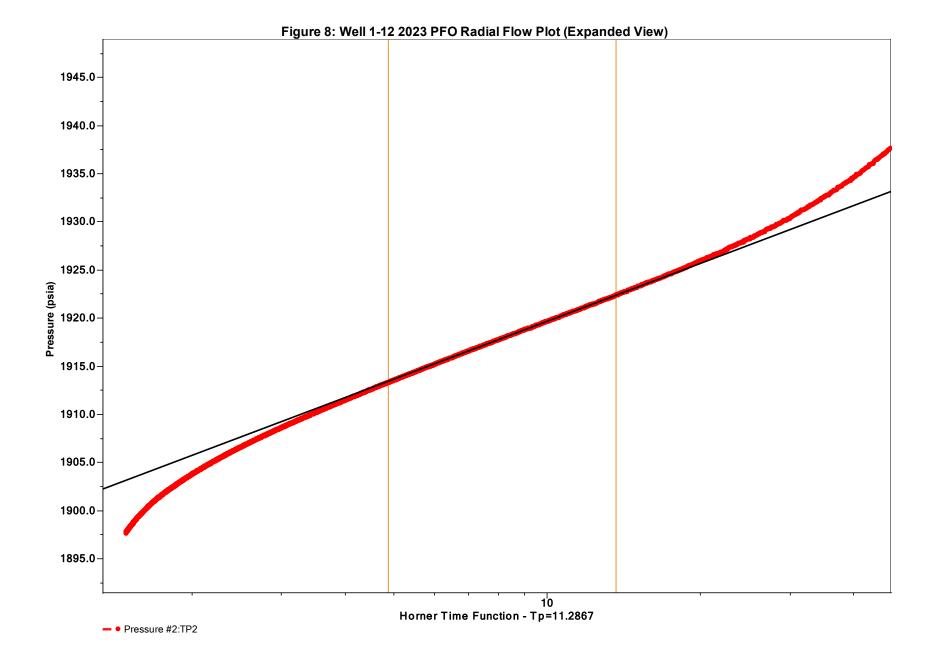
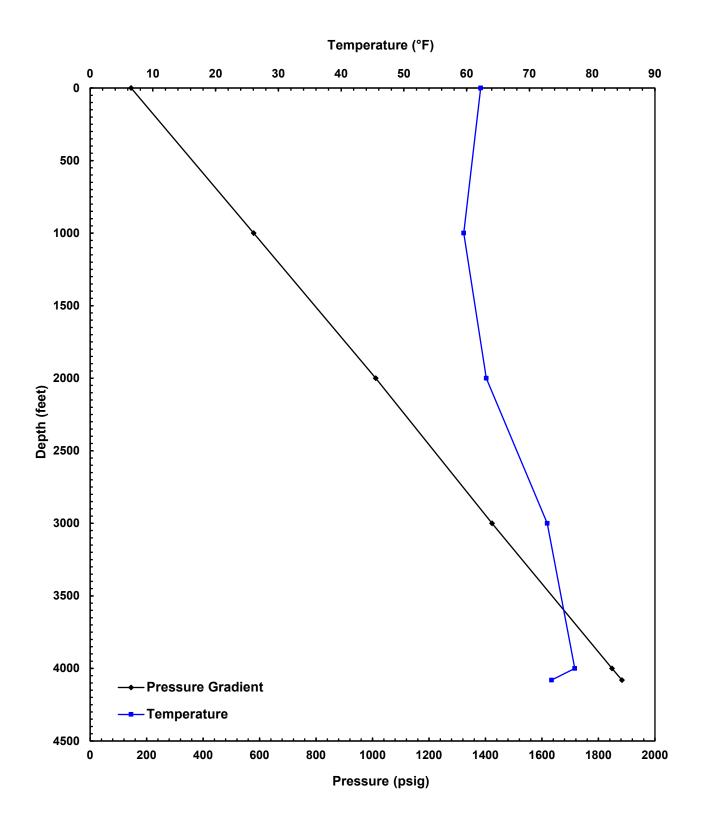


Figure 7: Well 1-12 2023 PFO Radial Flow Plot



STATIC PRESSURE GRADIENT SURVEY WELL No. 1-12 September 9, 2023



wsp

APPENDICES

Mechanical Integrity Testing and Pressure Falloff Testing Report – Well 1-12 – Project 192128AP Republic Industrial and Energy Solutions, LLC – October 2023



APPENDIX A

REGULATORY CORRESPONDENCE



From:	Kelly, Stephen L.
Sent:	Thursday, August 17, 2023 5:58 PM
То:	Tahtouh, Jeffry
Subject:	FW: Proposed Procedures for 2023 Annual Mechanical Integrity and Reservoir Monitoring in Republic Wells 1-12 and 2-12
	(Romulus, Michigan Facility)
Attachments:	FOT.pdf; RTS.pdf

From: Chase, Felicia <chase.felicia@epa.gov>

Sent: Thursday, August 17, 2023 11:23 AM

To: Kelly, Stephen L. <STEVE.KELLY@wsp.com>; Fisher, Marc <Fisher.Marc@epa.gov>

Cc: Greenhagen.Andrew <Greenhagen.Andrew@epa.gov>; Monica Rakovan <monicarakovan@ensoaq.com>;

joannemitock@ensoaq.com; Robinson, Valoria <robinson.valoria@epa.gov>

Subject: RE: Proposed Procedures for 2023 Annual Mechanical Integrity and Reservoir Monitoring in Republic Wells 1-12 and 2-12 (Romulus, Michigan Facility)

Good Morning Stephen,

Apologies for the delay and thank you for the reminder. EPA has reviewed the procedures you proposed on July 19, 2023 for temperature logs, radioactive tracer surveys, and fall-off tests in Republic Wells 1-12 and 2-12, Romulus (EPA UIC Permit #MI-163-1W-C010 and MI-163-1W-C011). Your proposed procedures are hereby approved unless you receive additional email correspondence in the next three business days from EPA approving the procedures with conditions or disapproving the procedures. EPA offers the following comments on the procedures:

- 1. All data must be submitted with the test reports
- 2. For fall-off testing: EPA typically recommends a pressure build-up period of longer than 10 hours since the most reliable fall-off data occurs during only half the build-up period. A longer build-up period lends itself to more reliable data. Also, EPA requests that the raw data from the fall-off tests be submitted digitally with a link to a file exchange site. It makes the process for our review and interpretation of the data easier.

A blank test information sheet is attached to this email – please complete and return it for each test when you submit your report. Please remember to submit the digital data either on CD, USB flash drive, or 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.

I am copying our EPA Field Inspectors to check their availability to witness the SAPTs. Please coordinate with them. MI-163-1W-C010 lat/ long location: 42.24351, -83.31682 MI-163-1W-C011 lat/ long location: 42.24371, -83.316903

Thank you for your patience and cooperation. Have a great day! Best, Felicia Chase Geologist/ Environmental Scientist Permits Branch, UIC Section U.S. EPA, Region 5 77 West Jackson Blvd., WP-16J Chicago , IL 60604 Confidential: This transmission may contain deliberative, attorney-client, attorney work product or otherwise privileged material. Do not release under FOIA without appropriate review. If this message has been received by you in error, you are instructed to delete this message, together with any attachments, from your computer and all storage media, whether electronic or hard copy.

From: Kelly, Stephen L. <<u>STEVE.KELLY@wsp.com</u>> Sent: Wednesday, August 2, 2023 9:14 AM To: Fisher, Marc <Fisher.Marc@epa.gov>

Cc: Greenhagen, Andrew (he/him/his) <<u>Greenhagen.Andrew@epa.gov</u>>; Chase, Felicia <<u>chase.felicia@epa.gov</u>> **Subject:** Proposed Procedures for 2023 Annual Mechanical Integrity and Reservoir Monitoring in Republic Wells 1-12 and 2-12 (Romulus, Michigan Facility)

Marc,

I'm checking on the status of the proposed procedures that Republic (Jason Rubin) submitted to EPA, Region 5 on July 19, 2023 for conducting Annual Fall-Off Tests, Annulus Pressure Tests and Radioactive Tracer Surveys in Republic Wells 1-12 and 2-12, Romulus (EPA UIC Permit #MI-163-1W-C010 and MI-163-1W-C011).

I will be scheduling the equipment to perform this work and wanted to see how soon we can start this work.

Steve Kelly Senior Project Manager



Main: +1 225-753-2561 Direct: +1 225-508-3867 Mobile: +1 225-572-2511

Email: Steve.Kelly@wsp.com

WSP USA 8212 Kelwood Ave Baton Rouge, LA 70806

wsp.com

-LAEmHhHzdJzBITWfa4Hgs7pbKI

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.



2023 ANNUAL MECHANICAL INTEGRITY
TEST PROCEDURESProject No.Republic Services
Romulus, MI Facility
Well 1-12; API No. 21-163-M452Date

1 of 2

The following procedures comply with the requirements of EPA, Region 5 for annual mechanical integrity tests on a Class I hazardous waste disposal well.

The following are the objectives of the 2023 Annual Mechanical Integrity Tests:

- Conduct a 1-Hour Annulus Pressure Test at a pressure of approximately 1,100 psi.
- Run a Radioactive Tracer Survey.
- Return well to normal service.
- Prepare a Mechanical Integrity Test Report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE.

A. ANNULUS PRESSURE TEST PROCEDURE

- 1. Notify the EPA, Region 5 and the Michigan EGLE at least 48 hours prior to initiating the annual mechanical integrity tests on Well 1-12.
- 2. Shut-in Well 1-12 at least 36 hours prior to conducting an Annulus Pressure Test (APT).
- 3. Record the last date of injection into Well 1-12.
- 4. Install a certified digital pressure gauge to the annulus and have a Calibration Certificate available on site that demonstrates the pressure gauge was calibrated within the past 12 months.
- 5. Pressurize the annulus to approximately 1,100 psi.
- 6. Allow the annulus pressure to stabilize. If necessary, depressurize and bleed line to gauge to remove any trapped air and repressurize.
- 7. Isolate the annulus pressure on the well from the Well Annulus Monitoring System by closing the necessary valves.
- 8. Record the Initial Annulus Pressure to begin the 1-hour APT.
- 9. Continue recording the annulus pressure at 10-minute intervals for at least 60 minutes or as instructed by the regulatory agency inspector witnessing the test. A successful APT will not fluctuate more than 3% of the initial test pressure during the 1-hour test period.
- 10. Release the pressure from the annulus by bleeding the excess annulus fluid into the Well Annulus Monitoring System storage tank and note the change in the tank level. If requested, perform annual alarm testing.
- 11. Provide the regulatory agency inspector with a copy of the data recorded during the APT and the pressure gauge calibration certificate.

	2023 ANNUAL MECHANICAL INTEGRITY TEST PROCEDURES	Project No.	TBD
115	Republic Services	Date	07/10/23
	Romulus, MI Facility Well 1-12; API No. 21-163-M452	Page	2 of 2

B. RADIOACTIVE TRACER SURVEY PROCEDURE

- 1. Republic will use its pump and fresh water to conduct the RAT Survey.
- 2. Run in the well with a dual gamma ray detector tool that has a collar locator and an ejector tool filled with lodine₁₃₁ radioactive material positioned above the gamma ray detectors.
- 3. After correlating the log with previous logs run in the well, tag bottom and run a pre-survey base gamma ray log from the total depth reached to approximately 3,000 feet.
- 4. Run 5-minute statistical checks in the time drive logging mode at 3,955 feet and 3,802 feet.
- 5. Start injection into the well at approximately 42 gpm (1 bpm). This will provide a fluid velocity of 65 ft/min in the tubing and a maximum velocity of approximately 12 ft/min in the open hole completion interval.
- 6. Release a slug of radioactive material at 3,100 feet while continuing to inject into the well at 1 bpm.
- 7. Drop the tool string down and record a log through the radioactive slug as it travels downhole. Make at least two logging passes through the moving slug before it reaches the injection packer at 4,036 feet. (At an injection rate of 1 bpm, slug will take approximately 15 minutes to reach the packer after ejection.)
- Continue logging the movement of the slug as it enters the open hole completion at a reduced velocity (maximum velocity = approximately 12 fpm at 1 bpm). Make additional logging passes through the slug until it has dissipated into the injection interval.
- 9. Pull the logging tool up to approximately 3,750 feet while continuing to inject at 1 bpm. Release a slug of lodine₁₃₁ at 3,750 feet. Drop the tool downhole and position the bottom detector at approximately 4,050 feet and begin recording a time drive survey. (Slug will be traveling at approximately 65 ft/min and will take about 4.6 minutes to reach tool from the time it was ejected.)
- 10. Record a time drive survey for at least 30 minutes while continuing to inject at approximately 1 bpm.
- 11. Following the time drive survey, tag bottom with the tool and run a post-survey base gamma ray log from the total depth reached to 3,000 feet.
- 12. Pull out of the hole with the tool and rig down and move out the wireline unit, pump truck and associated equipment.
- 13. Return the well to normal operation.
- 14. Prepare a Mechanical Integrity Report and submit to the UIC groups of the EPA, Region 5 and the Michigan EGLE.

ATTACHMENTS

- Figure 1: Wellhead Sketch
- Figure 2: Below Ground Details

PREPARED BY Steve Kelly 07-10-2023

Revision No. 0



2023 ANNUAL RESERVOIR PRESSURE MONITORING (INJECTION - FALLOFF) TEST PROCEDURE Republic Services Romulus, MI Facility Well 1-12; API No. 21-163-M452

Date

INTRODUCTION

The following procedure complies with the requirements of EPA, Region 5 for an annual reservoir pressure monitoring (injection – falloff) test of a Class I hazardous waste disposal well.

The following are the objectives of the 2023 Annual Reservoir Pressure Monitoring (Injection – Falloff) Test:

- Initiate injection into Well 1-12 at a constant rate. Terminate injection into Well 2-12 prior to the injection test into Well 1-12.
- Position dual memory gauges in Well 1-12 with the bottom gauge located at 4,080 feet KB.
- Inject fresh water into Well 1-12 at a constant rate for approximately 10 hours.
- Terminate injection into Well 1-12 no sooner than 1 hour after positioning bottomhole gauges in well and record the pressure falloff for approximately 24 hours.
- Return well 1-12 to normal service.
- Prepare a Reservoir Pressure Monitoring (Injection Falloff) Test Report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE. Include the raw pressure data with the report and the pressure gauge calibration certificate.

RESERVOIR PRESSURE MONITORING (INJECTION - FALLOFF) TEST PROCEDURE

- 1. Rig up slickline unit with mast and lubricator. Run in the hole with calibrated tandem pressure gauges and position the bottom gague at 4,080 feet KB. Record the bottomhole shut-in pressure for approximately 1 hour.
- 2. With Well 2-12 shut-in, initiate injection into Well 1-12 at a constant rate (±5%) using fresh water and the facility pump. Record the injection data during the test.
- 3. After approximately 10 hours of constant injection with a constant fluid density, terminate injection and shut-in the wing-valve near the well.
- 4. Record the pressure falloff data for approximately 24 hours.
- 5. Remove the pressure gauges from the well taking 5-minute gradient stops at 1,000-foot intervals. Download the pressure and temperature data at the surface.
- 6. Rig down and move out the slickline unit.
- 7. Analyze the data using PanSystem software and prepare a final report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE. Include the raw pressure data with the report and the calibration certificate for the pressure gauges.

07-05-2022

ATTACHMENTS

Figure 1: Wellhead Sketch

Figure 2: Below Ground Details

PREPARED BY	Steve Kelly

Revision No. 0



2023 ANNUAL MECHANICAL INTEGRITY TEST PROCEDURES Project No. Republic Services Date Romulus, MI Facility Well 2-12; API No. 21-163-M453 Page

TBD

1 of 2

INTRODUCTION

The following procedures comply with the requirements of EPA, Region 5 for annual mechanical integrity tests on a Class I hazardous waste disposal well.

The following are the objectives of the 2023 Annual Mechanical Integrity Tests:

- Conduct a 1-Hour Annulus Pressure Test at a pressure of approximately 1,100 psi.
- Run a Radioactive Tracer Survey.
- Return well to normal service.
- Prepare a Mechanical Integrity Test Report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE.

A. ANNULUS PRESSURE TEST PROCEDURE

- 1. Notify the EPA, Region 5 and the Michigan EGLE at least 48 hours prior to initiating the annual mechanical integrity tests on Well 2-12.
- 2. Shut-in Well 2-12 at least 36 hours prior to conducting an Annulus Pressure Test (APT).
- 3. Record the last date of injection into Well 2-12.
- 4. Install a certified digital pressure gauge to the annulus and have a Calibration Certificate available on site that demonstrates the pressure gauge was calibrated within the past 12 months.
- 5. Pressurize the annulus to approximately 1,100 psi.
- 6. Allow the annulus pressure to stabilize. If necessary, depressurize and bleed line to gauge to remove any trapped air and repressurize.
- 7. Isolate the annulus pressure on the well from the Well Annulus Monitoring System by closing the necessary valves.
- 8. Record the Initial Annulus Pressure to begin the 1-hour APT.
- 9. Continue recording the annulus pressure at 10-minute intervals for at least 60 minutes or as instructed by the regulatory agency inspector witnessing the test. A successful APT will not fluctuate more than 3% of the initial test pressure during the 1-hour test period.
- 10. Release the pressure from the annulus by bleeding the excess annulus fluid into the Well Annulus Monitoring System storage tank and note the change in the tank level. If requested, perform annual alarm testing.
- 11. Provide the regulatory agency inspector with a copy of the data recorded during the APT and the pressure gauge calibration certificate.

	2023 ANNUAL MECHANICAL INTEGRITY TEST PROCEDURES	Project No.	TBD
115	Republic Services	Date	07/10/23
	Romulus, MI Facility Well 2-12; API No. 21-163-M453	Page	2 of 2

B. RADIOACTIVE TRACER SURVEY PROCEDURE

- 1. Republic will use its pump and fresh water to conduct the RAT Survey.
- 2. Run in the well with a dual gamma ray detector tool that has a collar locator and an ejector tool filled with lodine₁₃₁ radioactive material positioned above the gamma ray detectors.
- 3. After correlating the log with previous logs run in the well, tag bottom and run a pre-survey base gamma ray log from the total depth reached to approximately 3,000 feet.
- 4. Run 5-minute statistical checks in the time drive logging mode at 3,855 feet and 3,800 feet.
- 5. Start injection into the well at approximately 42 gpm (1 bpm). This will provide a fluid velocity of 65 ft/min in the tubing and a maximum velocity of approximately 12 ft/min in the open hole completion interval.
- 6. Release a slug of radioactive material at 3,100 feet while continuing to inject into the well at 1 bpm.
- 7. Drop the tool string down and record a log through the radioactive slug as it travels downhole. Make at least two logging passes through the moving slug before it reaches the injection packer at 3,930 feet. (At an injection rate of 1 bpm, slug will take approximately 15 minutes to reach the packer after ejection.)
- Continue logging the movement of the slug as it enters the open hole completion at a reduced velocity (maximum velocity = approximately 12 fpm at 1 bpm). Make additional logging passes through the slug until it has dissipated into the injection interval.
- 9. Pull the logging tool up to approximately 3,750 feet while continuing to inject at 1 bpm. Release a slug of lodine₁₃₁ at 3,750 feet. Drop the tool downhole and position the bottom detector at approximately 3,960 feet and begin recording a time drive survey. (Slug will be traveling at approximately 65 ft/min and will take about 4.6 minutes to reach tool from the time it was ejected.)
- 10. Record a time drive survey for at least 30 minutes while continuing to inject at approximately 1 bpm.
- 11. Following the time drive survey, tag bottom with the tool and run a post-survey base gamma ray log from the total depth reached to 3,000 feet.
- 12. Pull out of the hole with the tool and rig down and move out the wireline unit, pump truck and associated equipment.
- 13. Return the well to normal operation.
- 14. Prepare a Mechanical Integrity Report and submit to the UIC groups of the EPA, Region 5 and the Michigan EGLE.

ATTACHMENTS

- Figure 3: Wellhead Sketch
- Figure 4: Below Ground Details

PREPARED BY Steve Kelly 07-10-2023

Revision No. 0



2023 ANNUAL RESERVOIR PRESSURE MONITORING (INJECTION - FALLOFF) TEST PROCEDURE Republic Services Romulus, MI Facility

Well 2-12; API No. 21-163-M453

Date

INTRODUCTION

The following procedure complies with the requirements of EPA, Region 5 for an annual reservoir pressure monitoring (injection – falloff) test of a Class I hazardous waste disposal well.

The following are the objectives of the 2023 Annual Reservoir Pressure Monitoring (Injection – Falloff) Test:

- Initiate injection into Well 2-12 at a constant rate. Terminate injection into Well 1-12 prior to the injection test into Well 2-12.
- Position dual memory gauges in Well 2-12 with the bottom gauge located at 3,975 feet KB.
- Inject fresh water into Well 2-12 at a constant rate for approximately 10 hours.
- Terminate injection into Well 2-12 no sooner than 1 hour after positioning bottomhole gauges in well and record the pressure falloff for approximately 24 hours.
- Return well 2-12 to normal service.
- Prepare a Reservoir Pressure Monitoring (Injection Falloff) Test Report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE. Include the raw pressure data with the report and the pressure gauge calibration certificate.

RESERVOIR PRESSURE MONITORING (INJECTION - FALLOFF) TEST PROCEDURE

- 1. Rig up slickline unit with mast and lubricator. Run in the hole with calibrated tandem pressure gauges and position the bottom gague at 3,975 feet KB. Record the bottomhole shut-in pressure for approximately 1 hour.
- 2. With Well 1-12 shut-in, initiate injection into Well 2-12 at a constant rate (±5%) using fresh water and the facility pump. Record the injection data during the test.
- 3. After approximately 10 hours of constant injection with a constant fluid density, terminate injection and shut-in the wing-valve near the well.
- 4. Record the pressure falloff data for approximately 24 hours.
- 5. Remove the pressure gauges from the well taking 5-minute gradient stops at 1,000-foot intervals. Download the pressure and temperature data at the surface.
- 6. Rig down and move out the slickline unit.
- 7. Analyze the data using PanSystem software and prepare a final report and submit to the UIC groups of EPA, Region 5 and Michigan EGLE. Include the raw pressure data with the report and the calibration certificate for the pressure gauges.

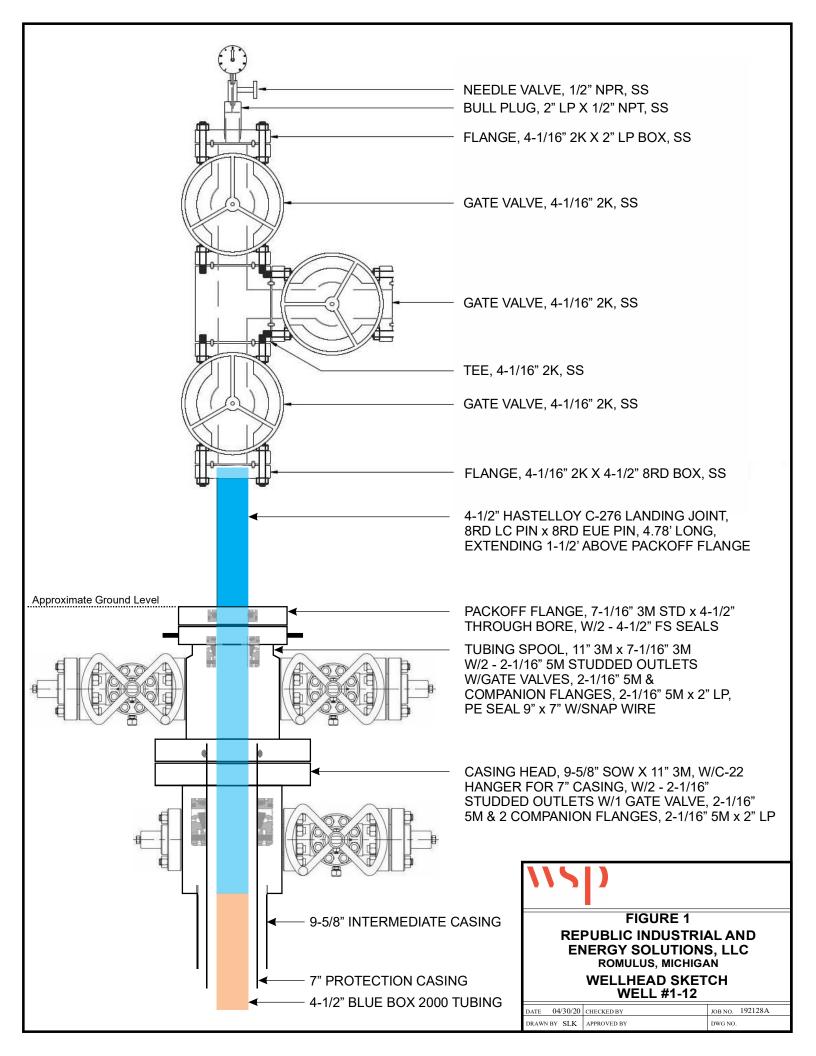
ATTACHMENTS

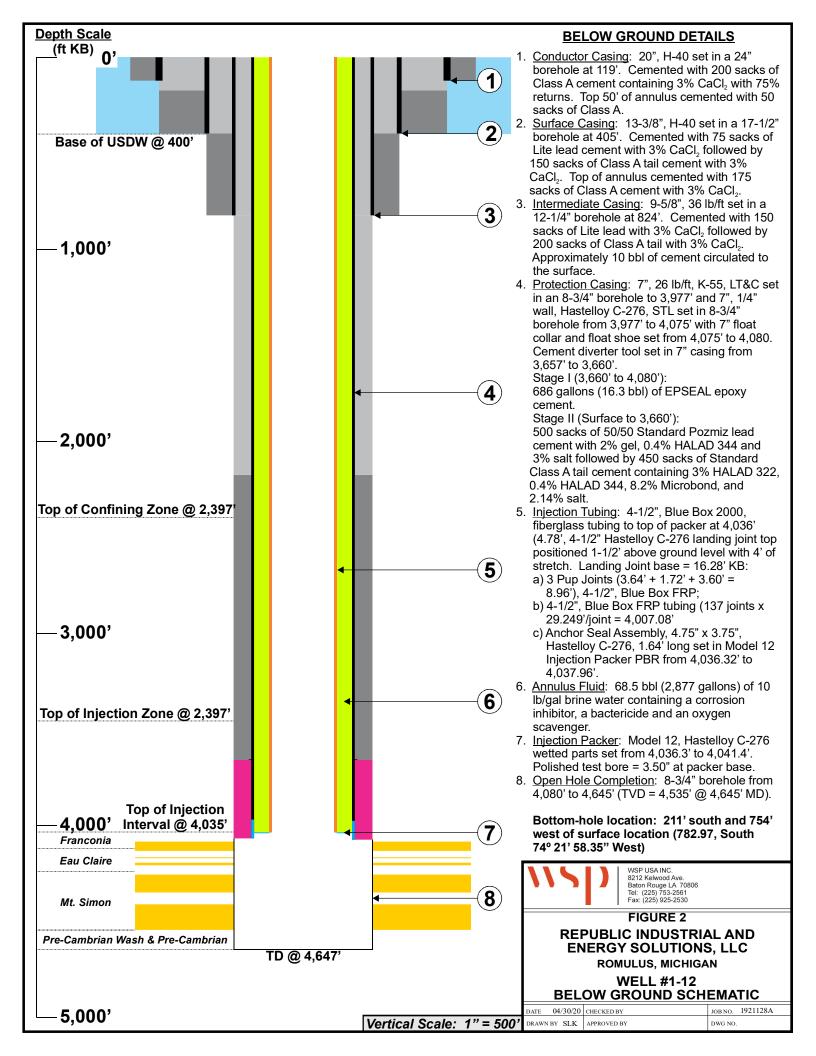
Figure 3: Wellhead Sketch

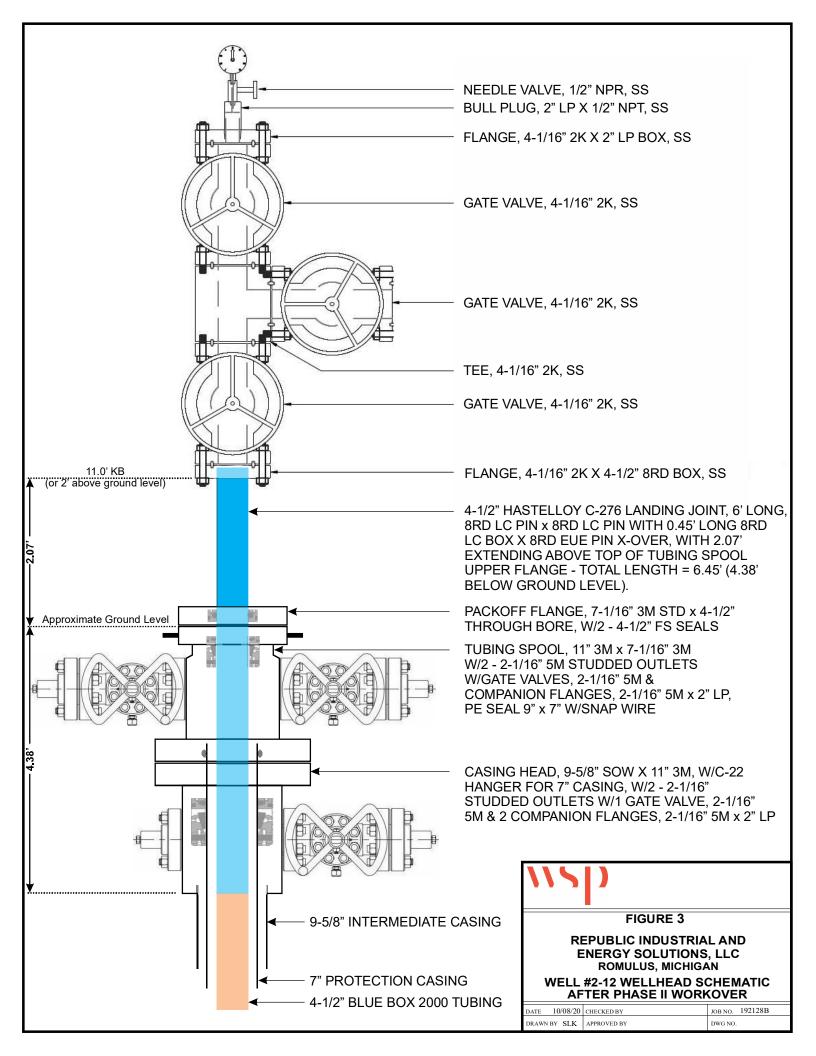
Figure 4: Below Ground Details

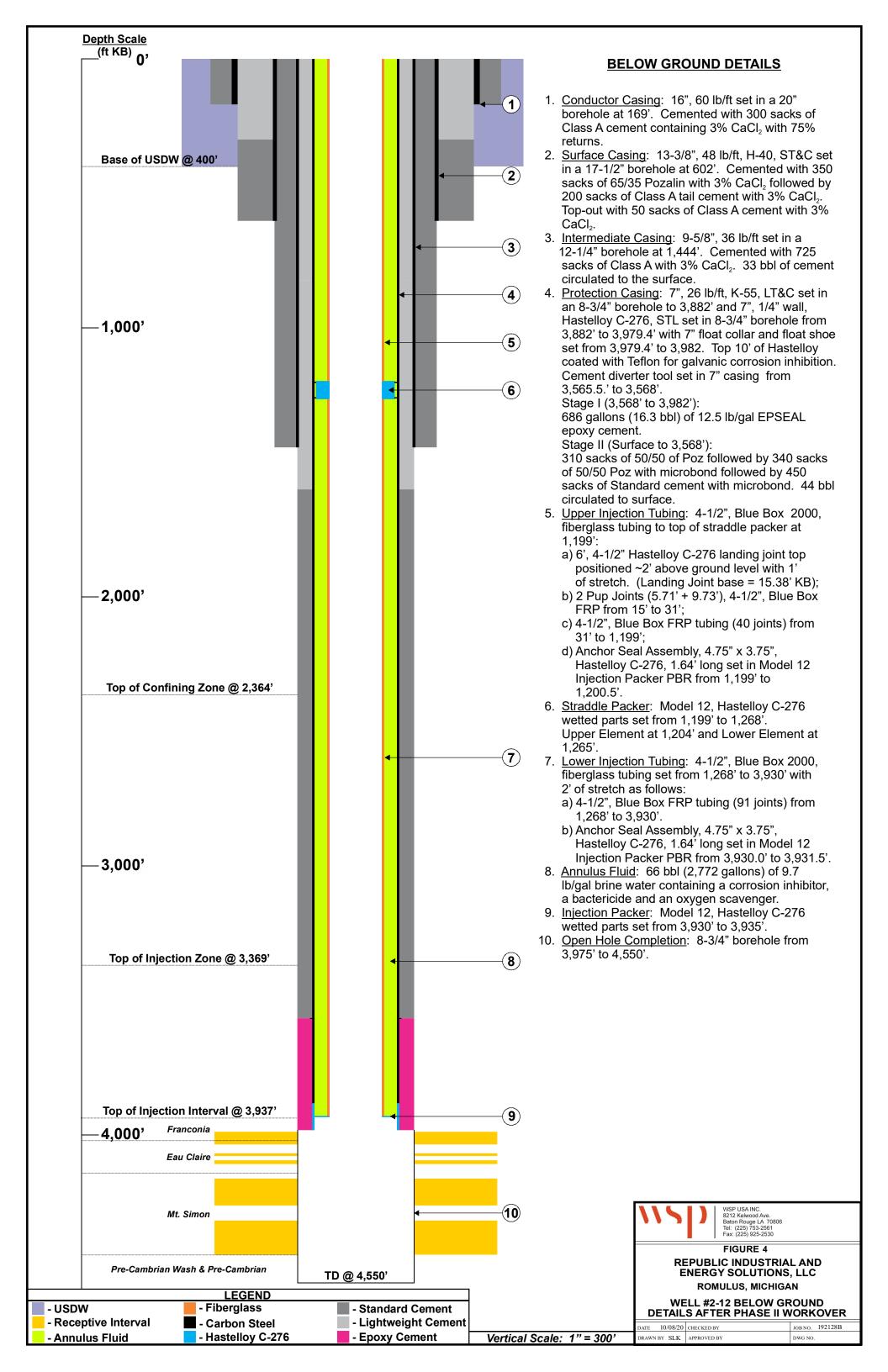
PREPARED BY Steve Kelly 07-05-2022

Revision No. 0











APPENDIX B

CHRONOLOGY OF FIELD ACTIVITIES





16200 Park Row., Suite 200 Houston, Texas 77084 (281) 589-5900

FIELD ACTIVITY REPORT

/Parriel	<u>.</u>								
	1.		wor nep	Jerny rantour					
Perform	ed:	New WellWorkover _X_Wireline Consulting	Other						
			_						
Та	Line	Breakdown of Operations							
-	-	Amine on location, hold actative meeting, discussed is h		4					
6:45	0.25		-	to proceed					
7:30	0.75		er Tool (RAT)						
8:00	0.50	Run in hole with RAT							
		Tagged TD @ 4296'							
			fill						
10:45	2.75								
8:30		, , ,	82 psi IP= 64 psi.						
8:45		Run 5 min stat checks at 3800' and 3855'							
		Initiate Injection at 42 gpm							
9:40		Run chase-down sequence 4 sec slug released at 3100)',						
		Rate=42 gpm, AP= 1176 psi IP= 445 psi. Four passes.							
10.18		Run time-drive survey 30 minute time drive, Eject 4 sec slug at 3750', Run downhole to							
10.10			6)						
10:45		· · · · ·	145 psi IP= 272 ps	si.					
11:30	0.75	Pull out of the hole. Rig down. Move to Well 1-12							
12:15	0.75		er Tool (RAT)						
12.15	0.50								
12.40	0.00								
			fill						
15.45	3 00								
	0.00		4 psi IP= 185 psi						
			· point .co point						
10.00									
11.25			יר						
14.55		· · ·	,						
			ec slug at 3750'	Run downhole t					
15:13									
			,						
15:49			95 psi IP= 285 psi						
	1.25	· · · · · ·							
	1.20								
tal	10.50								
	To 6:45 7:30 8:00 10:45 8:30 8:45	To Hrs 6:45 0.25 7:30 0.75 8:00 0.50 10:45 2.75 8:30	EDS 1-12 and EDS 2-12 Romulus //Parrish: Wayne County Breakdown of Operations To Hrs 6:45 0.25 Arrive on location, held safety meeting, discussed job, a 7:30 0.75 Rig-up Wireline unit on Well 2-12 for Radioactive Trace AP = 1094 psi IP = 252 psi Rate= 0 gpm 8:00 0.50 Run in hole with RAT Tagged TD @ 4296' NOTE: Tagged 38' higher compared to last year due to NOTE: Tagged 38' higher compared to last year due to NOTE: Tagged 38' higher compared to last year due to 10:45 10:45 Run Pre base log (4296' 3000'). Rate 0 gpm, AP= 10' 8:45 Run 5 min stat checks at 3800' and 3855' 9:40 Run chase-down sequence 4 sec slug released at 3100 Rate=42 gpm, AP= 1176 psi IP= 445 psi. Four passes. Maintain Injection at 42 gpm 10:18 Run fine-drive survey 30 minute time drive, Eject 4 s 3360' and start time drive when slug passed 3960' (9:40 Rate=42 gpm, AP= 1231 psi IP= 485 psi. 10:45 Run Post base log (4296'-3000'). Rate= 0 gpm, AP= 1' 11:30 0.75 Pull out of the hole. Rig down. Move to Well 1-12 12:45 0.50 Run in hole with RAT	EDS 1-12 and EDS 2-12 Date: Romulus FAR Report No:: Wayne County WSP Rep: Performed: New WellWorkover _X_Wireline ConsultingOther Breakdown of Operations Breakdown of Operations 6:45 0.25 Arrive on location, held safety meeting, discussed job, and got the notice 7:30 0.75 Rig-up Wireline unit on Well 2-12 for Radioactive Tracer Tool (RAT) AP = 1094 psi IP = 252 psi Rate= 0 gpm 8:00 0.50 Run in hole with RAT Tagged 38' higher compared to last year due to fill 10:45 2.75 Perform Radioactive Tracer Survey on Well 2-12 8:30 8:30 Run Pre base log (4296'- 3000'). Rate= 0 gpm, AP= 1082 psi IP= 64 psi. 8:45 8:45 Run 5 min stat checks at 3800' and 3855' Initiate Injection at 42 gpm 9:40 Run chase-down sequence 4 sec slug released at 3100', Rate=42 gpm, AP= 1176 psi IP= 445 psi. Four passes. Maintain Injection at 42 gpm 10:18 Maintain Injection at 42 gpm Run time-drive survey 30 minute time drive, Eject 4 sec slug at 3750', 3960' and start time drive when slug passed 3960' (9:46) 11:30 0.75 Rul no So base log (4296'-3000'). Rate= 0 gpm, AP= 1145 psi IP= 272 psi 11:31 <					

Working in Republic Romulus facility, working at heights, pinch points, radioactive material, heavy lifting

				Houston, Tex							
FIELD ACTIVITY REPORT (281) 589-5900											
Compa	any:		Republic Industrial and Energy Solutions	Project No:							
Nell:			EDS 1-12 and EDS 2-12		9/6/2023						
City	/Denniele	-	Romulus	FAR Report No.:							
State:	//Parrish		Wayne County MI	мор кер.:	Jeffry Tahtouh						
	Performe	ed:	New Well Workover X Wireline Consulting	Other							
			<u>, </u>								
Breakdown of Operations											
From	То	Hrs									
7:00	7:15	0.25	Arrive on location, held safety meeting, discussed job,	and got the notice	o proceed						
7:15	8:00	0.75	Rig up with Impact's slickline unit on Well 2-12	-	-						
			Ran Slickline unit with bottom hole pressure/temperature gauges downhole at Well 2-12								
8:00	8:15	0.25	AP = 1050 psi IP = 200 psi Rate= 0 gpm	0							
8:15	8:45	0.50	Set gauges @ 3975', let stabilize prior to injection								
8:45	19:45	11.00	Well 2-12 pressure buildup phase at a constant rate of	50 gpm							
8:46			Initiate Injection								
0.40			AP = 1160 psi IP = 450 psi Rate= 50 gpm								
			Well 2-12 pressure falloff phase								
19:45	19:50		Shut-in well and close wing valve @ 19:51								
			AP = 1253 psi IP = 356 psi Rate= 0 gpm								
19:50			Secure wells and leave location								
Тс	otal	12.75									
	Tanler		•								
	Topics		nulus facility, working at heights, pinch points, chemical								

FIELD ACTIVITY REPORT 16200 Park Row., Suite Houston, Texas 77084 (281) 589-5900									
Compa	any:		Republic Industrial and Energy Solutions	Project No: 192128AP					
Well:			EDS 1-12 and EDS 2-12	Date: 9/7/2023					
City			Romulus	FAR Report No.: 3					
	/Parrisl	า:	Wayne County	WSP Rep.: Jeffry Tahtouh					
State:			MI						
Work F	Perform	ed:	New WellWorkover _X_Wireline Consulting	Other					
			Breakdown of Operations						
F ina ins	Ta	Llue	Breakdown of Operations						
From	То	Hrs							
18:00	18:15	0.25	Arrive on location, held JSA, and obtained permit						
18.15	18:30	0.25	End PFO Test @ 6:20 for Well 2-12						
			IP = 179 psi AP = 1024 psi Rate = 0 GPM						
	19:00	0.50	Run Static Gradient Survey						
	18:31		5-min Stop @ 3000'						
18:35			5-min Stop @ 2000'						
18:43	18:48		5-min Stop @ 1000'						
18:53	18:58		5-min gradient stop @ Surface (in lubricator)						
19:00	19:30	0.50	Rig down from Well 2-12 . Download data from the bott Move to 1-12 to run gauges downhole for pressure fallo	, , ,					
19:30	20:00	0.50	Rig up on Well 1-12 Ran Slickline unit with bottom hole pressure/temperatu Rate= 0 gpm AP = 807 psi IP = 151 psi	re gauges downhole at Well 1-12					
20:00	20:30	0.50	Set gauges @ 4080', let stabilize prior to injection						
20:30			Initiate Injection on Well 1-12 for the pressure buildup Rate= 50 gpm, AP= 923 psi IP= 415 psi						
20:30	20:45	0.25	Secure well and leave location						
20:45			Rate= 50 gpm, AP= 955 psi IP= 472 psi						
То	tal	2.75							
Safety	Topics	5							
Workin	ig in Re	public F	Romulus facility, ppe, pinch points, and fall protection						

				Houston, Tex (281) 589-590							
FIELD ACTIVITY REPORT											
Compa	any:		Republic Industrial and Energy Solutions	Project No:							
Nell:			EDS 1-12 and EDS 2-12		9/9/2023						
City			Romulus	FAR Report No .:							
	/Parris	h:	Wayne County	WSP Rep.:	Jeffry Tahtouh						
State:			мі								
Work F	Perform	ed:	New WellWorkover _X_Wireline Consulting	Other							
Breakdown of Operations											
From	То	Hrs									
6:45	7:00	0.25	Arrive on location, held JSA, and got the notice to proce	eed							
			End PFO Test @ 07:03 for Well 1-12								
7:00	8:00	1.00	IP = 145 psi AP = 805 psi Rate = 0 GPM								
			Run Static Gradient Survey								
7:04	7:09		5-min Stop @ 4000'								
7:14	7:19		5-min Stop @ 3000'								
7:24	7:29		5-min Stop @ 2000'								
7:32	7:37		5-min Stop @ 1000'								
7:43	7:48		5-min gradient stop @ Surface (in lubricator)								
8:00	8:30	0.50	Rig down from Well 1-12. Download data from the bott	om hole pressure o	gauges.						
8:30			Secure well and leave location								
То	tal	1.75									
Safety	Topics	3									
ourory											

APPENDIX C

ANNULUS PRESSURE TEST DATA



APPENDIX C WELL 1-12 ANNULUS PRESSURE DATA August 11, 2023

Time	Time	Pressure] [Time	Time	Pressure	
	(min)	(psig)				(min)	(psig)	
15:53:10	0.00	1161.57	START		16:09:10	16.00	1156.48	
15:53:40	0.50	1161.14			16:09:40	16.50	1156.34	
15:54:10	1.00	1161.57			16:10:10	17.00	1156.20	
15:54:40	1.50	1161.14			16:10:40	17.50	1156.05	
15:55:10	2.00	1160.86			16:11:10	18.00	1155.77	
15:55:40	2.50	1160.72			16:11:40	18.50	1155.91	
15:56:10	3.00	1160.58			16:12:10	19.00	1155.63	
15:56:40	3.50	1160.40			16:12:40	19.50	1155.63	
15:57:10	4.00	1160.25			16:13:10	20.00	1155.07	
15:57:40	4.50	1160.10			16:13:40	20.50	1155.35	
15:58:10	5.00	1159.95			16:14:10	21.00	1155.21	
15:58:40	5.50	1159.81			16:14:40	21.50	1154.92	
15:59:10	6.00	1159.66			16:15:10	22.00	1154.64	
15:59:40	6.50	1159.51			16:15:40	22.50	1154.64	
16:00:10	7.00	1159.36			16:16:10	23.00	1154.37	
16:00:40	7.50	1159.22			16:16:40	23.50	1154.22	
16:01:10	8.00	1159.07			16:17:10	24.00	1154.22	
16:01:40	8.50	1158.92			16:17:40	24.50	1153.93	
16:02:10	9.00	1158.88			16:18:10	25.00	1154.08	
16:02:40	9.50	1158.46			16:18:40	25.50	1153.79	
16:03:10	10.00	1158.17			16:19:10	26.00	1153.51	
16:03:40	10.50	1158.46			16:19:40	26.50	1153.52	
16:04:10	11.00	1158.17			16:20:10	27.00	1153.09	
16:04:40	11.50	1158.03			16:20:40	27.50	1153.09	
16:05:10	12.00	1157.74			16:21:10	28.00	1152.80	
16:05:40	12.50	1157.65			16:21:40	28.50	1152.95	
16:06:10	13.00	1157.33			16:22:10	29.00	1152.66	
16:06:40	13.50	1157.47			16:22:40	29.50	1152.80	
16:07:10	14.00	1156.93			16:23:10	30.00	1152.38	
16:07:40	14.50	1156.90			16:23:40	30.50	1152.24	
16:08:10	15.00	1156.80			16:24:10	31.00	1152.38	
16:08:40	15.50	1156.48			16:24:40	31.50	1152.10	

APPENDIX C, Continued WELL 1-12 ANNULUS PRESSURE DATA August 11, 2023

Time	Time	Pressure	Time	Time	Pressure	
	(min)	(psig)		(min)	(psig)	
16:25:10	32.00	1151.81	 16:39:40	46.50	1148.14	
16:25:40	32.50	1152.10	 16:40:10	47.00	1147.86	
16:26:10	33.00	1151.55	16:40:40	47.50	1147.72	
16:26:40	33.50	1151.67	16:41:10	48.00	1147.57	
16:27:10	34.00	1151.25	16:41:40	48.50	1147.43	
16:27:40	34.50	1150.97	16:42:10	49.00	1147.57	
16:28:10	35.00	1150.97	16:42:40	49.50	1147.42	
16:28:40	35.50	1150.97	16:43:10	50.00	1147.01	
16:29:10	36.00	1150.68	16:43:40	50.50	1147.01	
16:29:40	36.50	1150.68	16:44:10	51.00	1146.87	
16:30:10	37.00	1150.54	16:44:40	51.50	1146.44	
16:30:40	37.50	1150.42	16:45:10	52.00	1146.30	
16:31:10	38.00	1150.40	16:45:40	52.50	1146.44	
16:31:40	38.50	1150.26	16:46:10	53.00	1146.30	
16:32:10	39.00	1150.26	16:46:40	53.50	1146.30	
16:32:40	39.50	1149.98	16:47:10	54.00	1145.74	
16:33:10	40.00	1149.69	16:47:40	54.50	1146.02	
16:33:40	40.50	1149.41	16:48:10	55.00	1146.02	
16:34:10	41.00	1149.41	16:48:40	55.50	1145.77	
16:34:40	41.50	1149.27	16:49:10	56.00	1145.45	
16:35:10	42.00	1149.27	16:49:40	56.50	1145.60	
16:35:40	42.50	1149.00	16:50:10	57.00	1145.45	
16:36:10	43.00	1148.85	16:50:40	57.50	1145.31	
16:36:40	43.50	1148.71	16:51:10	58.00	1144.89	
16:37:10	44.00	1148.42	16:51:40	58.50	1145.03	
16:37:40	44.50	1148.42	16:52:10	59.00	1144.89	
16:38:10	45.00	1148.42	16:52:40	59.50	1144.75	
16:38:40	45.50	1148.28	16:53:10	60.00	1144.61	END
16:39:10	46.00	1148.14				

APPENDIX D

CALIBRATION CERTIFICATES







July 24, 2023

Jason Rubin Republic Industrial and Energy Solutions 10613 W. Sam Houston Parkway N. Houston, TX 77064

Re: Calibration Performed at Republic Industrial and Energy Solutions. Job No. REPS238555-1

Dear Jason,

Please find enclosed (10) ten calibration forms for the Republic Industrial and Energy Solutions location dated July 14, 2023. If you have any questions, please feel free to call our office at 734-424-1200.

Sincerely,

/.

Brian Davis Project Manager

BD/re



Table of Contents Job #REPS238555-1



PAGE 1

Customer Republic Services

User <u>Republic Services</u>

Plant 28470 Citrin Drive

Substation	Position	Equipment	Page
Well 1	Annulus Pressure PRI	ISO-81235D1-ISO CERT 2015	1
Well 1	Annulus Pressure SEC	ISO-81235D1-ISO CERT 2015	2
Well 1	Well Flow	ISO-81235D1-ISO CERT 2015	3
Well 1	Well Pressure Logger	ISO-81235D1-ISO CERT 2015	4
Well 1	Well Pressure Primary	ISO-81235D1-ISO CERT 2015	5
Well 2	Annulus Pressure Primary	ISO-81235D1-ISO CERT 2015 (4)	6
Well 2	Annulus Pressure SEC	ISO-81235D1-ISO CERT 2015 (5)	7
Well 2	Well Flow	ISO-81235D1-ISO CERT 2015 (2)	8
Well 2	Well Pressure Primary	ISO-81235D1-ISO CERT 2015 (5)	9
Well 2	Well Pressure SEC (logger)	ISO-81235D1-ISO CERT 2015 (6)	10



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic S	ervices				CERTI	FICATE #	REPS238555-1, 1					
Address	28470 Citri	n Drive;	; Romulus M	/II US 481			JOB #	REPS238555-1					
USER	Republic S	; 28470 Citri	n Drive; I	Romulus MI U	IS 48174					PAGE 1			
OWNER REPRES	SENTATIVE	Joh	n Frost							TEL	EPHONE		46-1000
Service Date:		7/14/2	2023						Tem	ıp:	83 °F	Humidity:	51 %RI
Equip Location:		Pla	Int	Ş	Sub/Parent:		Well 1		Position/C	Child:	Annuli	us Pressu	
NAMEPLATE													
Item Tested	Pressure 7	Fransmit	ter										
Manufacturer	Yokogawa	l				Model	Number	EJA530					
Serial Number	91V71951	1				Tag Nu	ımber	PIT3838					
Operating Range	cal 0-1000	psig (S	pan of Meter (0-7200 psi)	Procedu	ure/Method	l	Fluke 754	4:75x_un	_umeng0000 rev Jul 2011		
	As Fo	und - W	ithin Spec			As L	eft - Within	n Spec					
	INPUT	psig				OUTPUT	mA	/ psig					
Line %		,	Applied		,	As Found	OOT	As Left	ООТ	Lo S	Dec	Hi Spec	
1			0			4.00		4.00		-2		2	
2			250			4.55		4.55		24	В	252	
3			500			5.11		5.11		49	В	502	
4			750			5.66		5.66		74	8	752	
5			1000			6.21		6.21		99	8	1002	
6		Ha	art Address			1		1					
7													
Communicator:	Hart-C	DEM Sp	ecific	Tota	alizer As Foun	d	NA	Totaliz	er As Left		NA		Gal
		#		nufacturer		Model		Serial / ID Nur			ation Date	Calibratio	
		1	Fluke			31 10Kpsi		SHOP-2			0/2023	3/31/2	
		2	Fluke		754			JW-23			27/2022	10/31/2	
Comments:		3	Extech		RH300(ambient)		CMC-17	//2	1/1	1/2021	1/11/2	026
Hart Address 1													
switched with data	alogger due to	transmi	tter dropping	out during	operation seria	al 5613698							
Deficiencies:													
	Traceability	at UIS, Inc	. is achieved throug	gh an unbroker	chain of measureme	ents with known ur	certainties, to t	he International System	ns of Units (SI) thru	NIST or ano	ther Metrology Ins	stitute.	
Due	procedure uti	ilized, profe	ssional experience.	It is the respon	nsibility of the user of	this equipment to	determine if the	he opinions of UIS, Inc. e results identified mee he written approval of	t specific requireme	ents for accu	acy and its intend	led use.	S.

on the certificate or calibration and label are determined by client for administrative purposes without the written approval of US, inc., and do not imply continued conforma The Confidence Factor is K=2 approx. 95% Confidence Level. All Certificates are page 1 of 1 unless otherwise specified. Page numbers at the top refer to the overall Job. This certificate shall not be reproduced except in full, without the written approval of UIS, Inc. Decision Rule 1: Measurement Uncertainty IS NOT taken into account for determining PASS or FAIL.

Date of Issue: 7/24/2023



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

Addess 26470 Citrin Drive; Romulus MI US 48174 JOB # REPS234 USER Republic Services; 28470 Citrin Drive; Romulus MI US 48174 PAGE OWNER REPRESENTATIVE John Frost TELEPHONE 734-94 Service Date:	E # REPS238555-1, 2		
OWNER REPRESENTATIVE John Frost TELEPHONE 734-34 Service Date: 7/14/2023 Temp: 83 °F Humidity: Equip Location: Plant Sub/Parent: Well 1 Position/Child: Annulus Pressur NAMEPLATE Item Tested Pressure Transmitter Model Number EJA530E Serial Number 91/927584 Tag Number PIT3838 Operating Range Cal 0-1000 psig HART Procedure/Method Fluke 754-75x_umreng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec Item Sec Hi Spec 1 0 1 1 -2 2 </th <th>555-1</th>	555-1		
Service Date: 7/14/2023 Temp: 83 * Humidity: Equip Location: Plant Sub/Parent: Well 1 Position/Child: Annulus Pressur NAMEPLATE Item Tested Pressure Transmitter Model Number EJA530E	2		
Equip Location: Plant Sub/Parent: Well 1 Position/Child: Annulus Pressur NAMEPLATE Item Tested Pressure Transmitter Model Number EJA530E Annulus Pressure Serial Number 91/927584 Tag Number EJA530E Editation Fluke 754:75x_umeng0000 rev Jul 2011 Operating Range cal 0-1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec Image: Second - Secon	j-1000		
Equip Location: Plant Sub/Parent: Well 1 Position/Child: Annulus Pressur NAMEPLATE Item Tested Pressure Transmitter Model Number EJA530E Serial Number EJA530E Serial Number 91/927584 Tag Number PIT3838 PIC PIC Operating Range cal 0-1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec Hi Spec 1 0 1 1 -2 2 2 250 248 248 248 252 3 500 498 498 498 502 4 750 749 749 748 752 5 1000 998 998 998 1002 6 Hart Address 1 1 - - 7 Communicator: Hart Address 1 1 - - 2 Fluke 700RG31 10Kpsi SHOP-2526	51 %RH		
Item Tested Pressure Transmitter Manufacturer Yokogawa Model Number EJA530E Serial Number 91/927584 Tag Number PIT3838 Operating Range cal 0-1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec Hispec Inne % Applied As Found oor As Left oor Lo Spec Hi Spec 1 0 1 1 -2 2 <th></th>			
Manufacturer Yokogawa Model Number EJA530E Serial Number 91V927584 Tag Number PIT3838 Operating Range cal 0-1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec INPUT INPUT psig OUTPUT psig Line % Applied As Found or 1 0 1 1 -2 2 2 250 248 248 248 252 3 500 498 498 498 502 4 750 749 749 748 752 5 1000 998 998 998 1002 6 Hart Address 1 1 1 1 7 Communicator: Hart-OEM Specific Totalizer As Found NA Totalizer As Left NA 1 Fluke 700RG31 10Kpsi SHOP-252			
Serial Number 91V927584 Tag Number PIT3838 Operating Range cel 0.1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left - Within Spec As Left - Within Spec As Left - Within Spec Line % Applied As Found oor As Left oor Lo Spec Hi Spec 1 0 1 1 -2 2 <td< td=""><td></td></td<>			
Operating Range cal 0-1000 psig HART Procedure/Method Fluke 754:75x_umeng0000 rev Jul 2011 As Found - Within Spec As Left Within Spec As Left OOT Los Spec Hi Spec Line % Applied As Found oor As Left oor Los Spec Hi Spec 1 0 1 1 -2 2 <td< td=""><td></td></td<>			
As Found - Within Spec As Left - Within Spec INPUT psig Line % Applied As Found oor As Left oor Lo Spec Hi Spec 1 0 1 1 -2 3 5 0 2 3 <t< td=""><td></td></t<>			
INPUT psig Line % Applied As Found oor As Left oor Lo Spec Hi Spec 1 0 1 1 -2 2			
Line % Applied As Found OOT As Left OOT Lo Spec Hi Spec 1 0 1 1 -2 3 5 000 998 998 998 998 1002 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1 0 1 1 -2 2 2 250 248 248 248 248 252 3 500 498 498 498 502 4 750 749 749 748 752 5 1000 998 998 998 998 1002 6 Hart Address 1			
2 250 248 248 248 248 252 3 500 498 498 498 498 502 4 750 749 749 749 748 752 5 1000 998 998 998 998 1002 6 Hart Address 1 1 1 1 1 7 Communicator: Hart-OEM Specific Totalizer As Found NA Totalizer As Left NA # Manufacturer Model Serial / ID Number Calibration Date Calibration Date Calibration 1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/202			
2 2.00 2.40 4.98 4.98 4.98 4.98 5.02 4 4.40 4.98 7.52 5 5 1.000 9.98 9.98 9.98 9.98 1.002 6 4.44 4.40 <td></td>			
3 300 493 493 493 493 302 4 750 749 749 748 752 5 1000 998 998 998 998 1002 6 Hart Address 1 1 1 1 1 7 Communicator: Hart-OEM Specific Totalizer As Found NA Totalizer As Left NA # Manufacturer Model Serial / ID Number Calibration Date Calibration 1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/20 Comments: Hart Address 1			
5 1000 998 998 998 998 1002 6 Hart Address 1 1 1 1 1 1 7 Communicator: Hart-OEM Specific Totalizer As Found NA Totalizer As Left NA # Manufacturer Model Serial / ID Number Calibration Date Calibration 1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/20 Comments: Hart Address 1 Hart Address 1 Hart Address 1 Hart Address Hart Address			
3 1000 998 998 998 998 998 998 998 998 998 1002 6 Hart Address 1 <th1< th=""></th1<>			
Totalizer As Left NA Totalizer As Left NA Totalizer As Left NA # Manufacturer Model Serial / ID Number Calibration Date Calibration 1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/2021 Comments: Hart Address 1 Left NA Left NA			
Communicator: Hart-OEM Specific Totalizer As Found NA Totalizer As Left NA # Manufacturer Model Serial / ID Number Calibration Date Calibration Date <td< td=""><td></td></td<>			
# Manufacturer Model Serial / ID Number Calibration Date Calibration 1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/2021			
1 Fluke 700RG31 10Kpsi SHOP-2526 3/20/2023 3/31/20 2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/2021 Comments: Hart Address 1 Hart Address 1 Hart Address Hart Addres Hart Addres Hart Addres	Gal		
2 Fluke 754 JW-2395 10/27/2022 10/31/20 3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/2021 Comments: Hart Address 1			
3 Extech RH300(ambient) CMC-1772 1/11/2021 1/11/2021 Comments: Hart Address 1 Hart Address 1 <t< td=""><td></td></t<>			
Comments: Hart Address 1			
	.0		
switched with datalogger due to transmitter dropping out during operation serial 5613698			
Deficiencies			
Deficiencies:			
Traceability at UIS, Inc. is achieved through an unbroken chain of measurements with known uncertainties, to the International Systems of Units (SI) thru NIST or another Metrology Institute. The results contained within relate only to the item(s) calibrated. Pass/Fail or In/Out of tolerance statements are the opinions of UIS, Inc., decisions are based on data from measurements made,			
procedure utilized, professional experience. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for accuracy and its intended use. Due dates appearing on the certificate of calibration and label are determined by client for administrative purposes without the written approval of UIS, Inc., and do not imply continued conformance to specifications. The Confidence Factor is K=2 approx. 95% Confidence Level. All Certificates are page 1 of 1 unless otherwise specified. Page numbers at the top refer to the overall Job.			

This certificate shall not be reproduced except in full, without the written approval of UIS, Inc. Decision Rule 1: Measurement Uncertainty IS NOT taken into account for determining PASS or FAIL.

Date of Issue: 7/24/2023



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOM	ER	Republic S	ervices	3						CERTIFICATE #	REPS2385	55-1, 3
Address		28470 Citri	n Drive	; Romulus MI US	48174					JOB #	REPS2385	55-1
USER		Republic S	ervices	s; 28470 Citrin Driv	ve; Romulus MI L	JS 48174					PAGE	3
OWNER F	REPRES	ENTATIVE	Joł	nn Frost						TELEPHONE	734-946	1000
Service Da	ate:		7/14/	/2023					Temp:	80 °F	Humidity:	57 %RH
Equip Loc	ation:		Pla	ant	Sub/Parent:		Well 1		Position/Chil	d:	Well Flow	
NAMEPLA	ATE											
Item Teste	ed	Clamp-on	Flowme	eter								
Manufactu	urer	Keyence				Model	Number	FD-R80				
Serial Nur	nber	#G382205	528			Tag N	umber	NA				
Operating	Range	0-400 GPI	M			Proced	ure/Method		Fluke 754:7	5x_umeng0000 re	ev Jul 2011	
		INPUT	Diag			OUTPUT	Diag					
Line	%			Applied		As Found	ООТ	As Left	OOT			
1	GPM		l	KEYENCE		27.5		27.5				
2	GPM		GREY	LINE TFFM 6.1		27.3		27.3				
3												
Communi	cator:				Totalizer As Four	nd	NA	Totalize	r As Left	NA		Gal
			#	Manufact		Model		Serial / ID Numl		Calibration Date	Calibration	Due
			1	Extech		(ambient)		CMC-177		1/11/2021	1/11/202	
			2	Grey Line	TTFM			SHOP-25	18	5/18/2023	5/31/202	6
Comment 3" hastallo		ule 40, 3.50 C	DD, wall	thickness 0.216", 0	.46" spacing at 1 pa	ass, use othe	r for pipe ma	aterial.				
Deficienc	ies:											

Traceability at UIS, Inc. is achieved through an unbroken chain of measurements with known uncertainties, to the International Systems of Units (SI) thru NIST or another Metrology Institute. The results contained within relate only to the item(s) calibrated. Pass/Fail or In/Out of tolerance statements are the opinions of UIS, Inc., decisions are based on data from measurements made, procedure utilized, professional experience. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for accuracy and its intended use. Due dates appearing on the certificate of calibration and label are determined by client for administrative purposes without the written approval of UIS, Inc., and do not imply continued conformance to specifications. The Confidence Factor is K=2 approx. 95% Confidence Level. All Certificates are page 1 of 1 unless otherwise specified. Page numbers at the top refer to the overall Job. This certificate shall not be reproduced except in full, without the written approval of UIS, Inc. Decision Rule 1: Measurement Uncertainty IS NOT taken into account for determining PASS or FAIL.

Date of Issue: 7/24/2023

Tech 1: C. McCraw Tech 2: NA



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic S	ervices	6							CERT	IFICATE #	REPS23	8555-1,	, 4
Address	28470 Citrii	n Drive	; Romu	lus MI US 48	3174						JOB #	REPS23	8555-1	
USER	Republic S	ervices	s; 28470	Citrin Drive;	Romulus MI	US 48174						PAGE	4	
OWNER REPRES	SENTATIVE	Joh	n Frost							TE	LEPHONE	734-94	6-1000	
Service Date:		7/14/	2023						Tem	p:	83 °F	Humidity:	51	%RH
Equip Location:		Pla	ant		Sub/Parent:		Well 1		Position/C	hild:	Well	Pressure L		r
NAMEPLATE														
Item Tested	Pressure T	ransmi	tter											
Manufacturer	Yokogawa					Model	Number	EJA53						
Serial Number	91V631757	7-926				Tag N	umber	PIT3938						
Operating Range	cal 0-1000	psig				Proced	ure/Method			_	meng0000 re			
	INPUT	psig				OUTPUT	psig							
Line %			Applied			As Found	OOT	As Left	ООТ	Lo S	Spec	Hi Spec		
1			0			1		1		-)	2	2		
2			250			248		248	Г	24	48	252		
3			500			498		498		49	98	502		
4			750			748		748	Г	74	48	752		
5			1000			998		998		99	98	1002		
6														
Communicator:		HART		Т	otalizer As Fou	und	NA	Totalize	r As Left		NA		Gal	
		#		Manufacture		Model		Serial / ID Num			oration Date	Calibratio		
		1	Fluke			G31 10Kpsi		SHOP-25			20/2023	3/31/2		
		2	Fluke Extech		754 RH30	0(ambient)		JW-2399 CMC-177			/27/2022 /11/2021	10/31/2 1/11/2		
Comments:		5	Extech		11100	o(ambient)		CIVIC-177	2	17	11/2021	1/11/2	020	
Deficiencies:														
Due	The results co procedure util dates appearing on	intained wi lized, profe the certific	thin relate or essional expe	ly to the item(s) ca rience. It is the res ation and label are K=2 approx. 95% This of	alibrated. Pass/Fail or ponsibility of the user determined by client Confidence Level. All certificate shall not be	In/Out of tolerance s of this equipment to for administrative pu Certificates are pag reproduced except	tatements are the determine if the poses without the e 1 of 1 unless of in full, without the	he International Systems he opinions of UIS, Inc., to results identified meet results identified meet a he written approval of UI therwise specified. Page e written approval of UIS unt for determining PASS	decisions are base pecific requirement S, Inc., and do not numbers at the to , Inc.	ed on data nts for acc t imply con	from measuremen uracy and its inter tinued conforman	nts made, nded use.		

Date of Issue: 7/24/2023



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic Services							CERTIFICA	ATE #	REPS23	8555-1,	5
Address	28470 Citrin Drive; F	Romulus MI US 48	174					JOE	3 #	REPS23	8555-1	
USER	Republic Services; 2	8470 Citrin Drive;	Romulus MI US	\$ 48174						PAGE	5	
OWNER REPRES	SENTATIVE John I	Frost						TELEPH		734-94	6-1000	
Service Date:	7/14/20)23					Tem	ıp: 83	°F	Humidity:	51	%RH
Equip Location:	Plan	t	Sub/Parent:		Well 1		Position/0	Child:	Nell P	ressure F	rimar	y
NAMEPLATE												
Item Tested	Pressure Transmitter											
Manufacturer	Yokogawa			Model N	lumber	EJA53						
Serial Number	91V926590-938			_ Tag Nur	mber	PIT3938						
Operating Range	cal 0-1000 psig (Mete	er Span 0-7200 psi)		- Procedu	re/Method		Fluke 75	4:75x_umeng	,0000 re	v Jul 2011		
	As Found - With	in Spec		As Le	eft - Within	Spec						
	INPUT psig			OUTPUT	mA/ I	PSIG						
Line %	Ар	plied	A	s Found	OOT	As Left	OOT	Lo Spec		Hi Spec		
1		0		4.00		4.00		-2		2		
2		250		4.55		4.55		248		252		
3		500		5.11		5.11		498		502		
4		750		5.66		5.66		748		752		
5		1000		6.22		6.22		998		1002		
6												
Communicator:	HART	Тс	otalizer As Found	t t	NA	Totalize	er As Left	1	٨٨		Gal	
	#	Manufacture		Model		Serial / ID Num		Calibration		Calibratio		
		luke	700RG31	I 10Kpsi	_	SHOP-25		3/20/20	-	3/31/20	-	
		luke Extech	754 RH300(a	mbiont)		JW-239 CMC-177	-	10/27/2 1/11/20		10/31/2 1/11/20		
Comments:	5 L	XIECH	Ki 1500(a	mblent)			2	1/11/20)21	1/11/20	520	
Deficiencies:												
Due	Traceability at UIS, Inc. is The results contained within procedure utilized, professio dates appearing on the certificate	nal experience. It is the res	librated. Pass/Fail or In/O ponsibility of the user of the	Out of tolerance sta his equipment to d	atements are the letermine if the	e opinions of UIS, Inc., results identified meet s	decisions are bas specific requireme	ed on data from m ents for accuracy a	easurement nd its intend	s made, led use.		
Due	The Confidence	Factor is K=2 approx. 95% This of	Confidence Level. All Cer ertificate shall not be rep Rule 1: Measurement Unc	tificates are page roduced except in	1 of 1 unless ot full, without the	therwise specified. Page written approval of UIS	e numbers at the 1 3, Inc.	op refer to the ove	rall Job.	o opconications		

Date of Issue: 7/24/2023



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic Services							CERTIFICA	TE #	REPS238555	·1, 6
Address	28470 Citrin Drive; R	omulus l	MI US 48174					JOB	#	REPS238555-	1
USER	Republic Services; 2	8470 Citr	in Drive; Romulus MI U	JS 48174						PAGE	6
OWNER REPRES	SENTATIVE John F	rost						TELEPHO		734-946-10)0
Service Date:	7/14/20	23					Tem	o: 83	°F	Humidity: 51	%RH
Equip Location:	Plant		Sub/Parent:		Well 2		Position/C	hild: Anr	nulus	Pressure Prir	
NAMEPLATE											
Item Tested	Pressure Transmitter										
Manufacturer	Yokogaw			Model N	Number	EJA530E-JDS	67N-012EL/F	J1/D1/JH05			
Serial Number	91V927606			— Tag Nu	mber	PIT3938					
Operating Range	cal 0-1000 psig				re/Method		Fluke 754	:75x_umeng()000 rev	/ Jul 2011	
	As Found - Withi	n Spec		As L	eft - Within	Spec					i
	INPUT psig			OUTPUT	mA /	psig					
Line %	Apr	olied		As Found	ООТ	As Left	OOT	Lo Spec		Hi Spec	
1		0		3.99		3.99		-2		+2	
2		250		4.55		4.55		248		252	
3		500		5.10		5.10		498		502	
4		750		5.66		5.66		748		752	
5		1000		6.22		6.22		998		1002	
6	Hart	Address	5	4		4					
7											
Communicator:	Hart-OEM Spec	ific	Totalizer As Four	nd	NA	Totalize	r As Left	N	A	Ga	1
	#		nufacturer	Model		Serial / ID Numl		Calibration		Calibration Due	:
		uke		31 10Kpsi		SHOP-25		3/20/202		3/31/2024	
		uke xtech	754 RH300	(ambient)		JW-239 CMC-177		10/27/20		10/31/2023 1/11/2026	
Comments: no mA output; uni	t comm with Hart to PLC										
Deficiencies:											
Due	The results contained within r procedure utilized, profession dates appearing on the certificate of	elate only to to nal experience of calibration a	gh an unbroken chain of measurem he item(s) calibrated. Pass/Fail or Ih I. It is the responsibility of the user o and label are determined by client fo approx. 95% Confidence Level. All C This certificate shall not be r Decision Rule 1: Measurement U	n/Out of tolerance sta f this equipment to our administrative purp certificates are page eproduced except in	atements are the determine if the poses without the 1 of 1 unless of full, without the	e opinions of UIS, Inc., o results identified meet s ne written approval of UI therwise specified. Page e written approval of UIS	decisions are base specific requirement S, Inc., and do not e numbers at the to S, Inc.	d on data from mea its for accuracy and imply continued co	asurements d its intende informance	made, ed use.	

Date of Issue: 7/24/2023



Date

CALIBRATION CERTIFICATE

UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic Service	s							CEF	RTIFICATE #	REPS23855	5-1, 7
Address	28470 Citrin Drive	e; Romu	ulus MI US 48 [.]	174						JOB #	REPS23855	5-1
USER	Republic Service	s; 28470	Citrin Drive;	Romulus MI U	IS 48174						PAGE	7
OWNER REPRES	SENTATIVE Jo	hn Frost							т	ELEPHONE	734-946-1	000
Service Date:	7/14	/2023						Te	mp:	83 °F	Humidity: 5	1 %RH
Equip Location:	PI	lant		Sub/Parent:		Well 2		Position	/Child:	Annulu	is Pressure S	SEC
Item Tested	Pressure Transm	ittor										
		inter			Madal	Number				4/11/05		
Manufacturer	Yokogawa					Number		DS7N-012EL/	FUI/D	I/JH05		
Serial Number	91V926611				Tag N	umber	PIT					
Operating Range	cal 0-1000 psig				Proced	lure/Method		Fluke 7	54:75x_	_umeng0000 re	v Jul 2011	
	As Found - V	Within Sp	ec		As l	Left - Within	Spec					
	INPUT psig				OUTPUT	psig						
Line %		Applied		ŀ	As Found	OOT	As Left	ООТ	Lc	Spec	Hi Spec	
1		0			1		1			-2	+2	
2		250			249		250	Г	:	248	252	
3		500			499		500			498	502	
4		750			748		750	Г		748	752	
5		1000)		998		1000			998	1002	
6	H	lart Add	lress		2		2	Г				
7												
Communicator:	Hart-OEM S	pecific	То	talizer As Foun	ıd	NA	Total	izer As Left		NA	G	al
	#		Manufacture	r	Model		Serial / ID Nu	umber	Ca	libration Date	Calibration Du	le
	1	Fluke			31 10Kpsi		SHOP-			3/20/2023	3/31/2024	_
	2	Fluke		754 RH200(/	(ambient)		JW-2			10/27/2022	10/31/2023	
Comments:	3	Extech		KH300(a	ambient)		CMC-1	1772		1/11/2021	1/11/2026	
no mA output; uni	t comm with Hart											
Deficiencies:												
	Traceability at UIS, Ir The results contained v procedure utilized, prot	vithin relate o	nly to the item(s) call	en chain of measureme ibrated. Pass/Fail or In/ onsibility of the user of	Out of tolerance s	statements are th	ne opinions of UIS, In	nc., decisions are ba	ased on da	ta from measurement	s made,	
Due	dates appearing on the certif	icate of calib	ration and label are o s K=2 approx. 95% C	letermined by client for confidence Level. All Ce	r administrative pu ertificates are pag	urposes without to ge 1 of 1 unless of	he written approval o otherwise specified. F	of UIS, Inc., and do i Page numbers at the	not imply c	continued conformanc		
			This ce Decision R	ertificate shall not be rep ule 1: Measurement Ur	produced except ncertainty IS NOT	In full, without th taken into accor	e written approval of unt for determining P	UIS, Inc. PASS or FAIL.				
of Issue: 7/24/2023						Tech 1: C. M	AcCraw T	ech 2: NA		ISO-81523	BD-ISO Cert 2015; I	Rev Oct 2022

2



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic S	ervices	6					C	ERTIFICATE #	REPS238	555-1,	8
Address	28470 Citri	n Drive	; Romulus MI US 4	18174					JOB #	REPS238	555-1	
USER	Republic S	ervices	; 28470 Citrin Drive	e; Romulus MI U	S 48174					PAGE	8	
OWNER REPR	SENTATIVE	Joł	n Frost						TELEPHONE	734-946	6-1000	
Service Date:		7/14/	2023					Temp:	80 °F	Humidity:	55	%RH
Equip Location:		Pla	ant	Sub/Parent:		Well 2		Position/Chil	d:	Well Flow		
NAMEPLATE												
Item Tested	Clamp-on	Flowme	ter									
Manufacturer	Keyence				Model	Number	FD-R80					
Serial Number	G3822052	??			Tag Nu	umber	FIT3832					
Operating Rang	e 0-400 GPI	М			Proced	ure/Method		Fluke 754:7	5x_umeng0000 r	ev Jul 2011		
	INPUT	GPM			OUTPUT	GPM						
Line %			Applied	ŀ	As Found	OOT	As Left	OOT				
1 GPM			KEYENCE		30.4		30.4					
2 GPM	I	GRE	LINE TFFM 6.1		30.0		30.0					
3												
Communicator:			-	Totalizer As Foun	d	NA	Totalize	r As Left	NA		Gal	
		#	Manufactu	rer	Model		Serial / ID Num	ber	Calibration Date	Calibration	Due	
		1	Extech		ambient)		CMC-177		1/11/2021	1/11/202		_
		2	Grey Line	TTFM			SHOP-25	18	5/18/2023	5/31/202	26	
Comments: 3" hastalloy sch	edule 40, 3.50 (DD, wall	thickness 0.216", 0.4	16" spacing at 1 pa	iss, use othe	r for pipe ma	aterial.					
Deficiencies:												

Traceability at UIS, Inc. is achieved through an unbroken chain of measurements with known uncertainties, to the International Systems of Units (SI) thru NIST or another Metrology Institute. The results contained within relate only to the item(s) calibrated. Pass/Fail or In/Out of tolerance statements are the opinions of UIS, Inc., decisions are based on data from measurements made, procedure utilized, professional experience. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for accuracy and its intended use. Due dates appearing on the certificate of calibration and label are determined by client for administrative purposes without the written approval of UIS, Inc., and do not imply continued conformance to specifications. The Confidence Factor is K=2 approx. 95% Confidence Level. All Certificates are page 1 of 1 unless otherwise specified. Page numbers at the top refer to the overall Job. This certificate shall not be reproduced except in full, without the written approval of UIS, Inc. Decision Rule 1: Measurement Uncertainty IS NOT taken into account for determining PASS or FAIL.

Date of Issue: 7/24/2023

Tech 1: C. McCraw Tech 2: NA



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic Services							CERTIFICATE #	REPS23	8555-1, 9	
Address	28470 Citrin Drive; R	Romulus MI US 48	174					JOB #	REPS23	8555-1	
USER	Republic Services; 2	8470 Citrin Drive;	Romulus MI U	S 48174					PAGE	9	
OWNER REPRES	SENTATIVE John F	Frost						TELEPHONE	734-94	6-1000	
Service Date:	7/14/20	23					Temp	: 83 ° F	Humidity:	52 %F	۲H
Equip Location:	Plant		Sub/Parent:		Well 2		Position/Ch	nild: Well F	Pressure P		
NAMEPLATE											
Item Tested	Pressure Transmitter										
Manufacturer	Yokogaw			Model	Number	EJA530E-JDS	7N-012EL/FU	1/D1/JH05			
Serial Number	91W312670			Tag Nu	ımber	PIT3935					
Operating Range	cal 0-1000 psig			Procedu	ure/Method		Fluke 754:	75x_umeng0000 re	ev Jul 2011		
-	INPUT psig			OUTPUT	mA						
Line %	Арр	blied	ŀ	As Found	ООТ	As Left	ООТ	Lo Spec	Hi Spec		
1		0		4.00		4.00		-2	+2		
2		250		4.55		4.55		248	252		
3		500		5.10		5.10		498	502		
4		750		5.66		5.66		748	752		
5		1000		6.22		6.22		998	1002		Π
6	Hart	Address		5		5					
7											
Communicator:		Тс	otalizer As Foun	d	NA	Totalize	As Left	NA		Gal	
	#	Manufacture		Model		Serial / ID Numb		Calibration Date	Calibratio		
		xtech		ambient)		CMC-177		1/11/2021	1/11/20		
		luke luke	754 700BC3			JW-2395 SHOP-252		10/27/2022	10/31/2		
Comments:	3 FI	luke	TUURGS	31 10Kpsi		3HUF-252	20	3/20/2023	3/31/20)24	
	t comm with Hart to PLC										
· /											

Deficiencies:

mA found in tolerance. Display is not correct but doesn't impact anything to their SCADA.

Traceability at UIS, Inc. is achieved through an unbroken chain of measurements with known uncertainties, to the International Systems of Units (SI) thru NIST or another Metrology Institute. The results contained within relate only to the item(s) calibrated. Pass/Fail or In/Out of tolerance statements are the opinions of UIS, Inc., decisions are based on data from measurements made, procedure utilized, professional experience. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for accuracy and its intended use. Due dates appearing on the certificate of calibration and label are determined by client for administrative purposes without the written approval of UIS, Inc., and do not imply continued conformance to specifications. The Confidence Factor is K=2 approx. 95% Confidence Level. All Certificates are page 1 of 1 unless otherwise specified. Page numbers at the top refer to the overall Job. This certificate shall not be reproduced except in full, without the written approval of UIS, Inc. Decision Rule 1: Measurement Uncertainty IS NOT taken into account for determining PASS or FAIL.

Date of Issue: 7/24/2023

Tech 1: C. McCraw Tech 2: NA



UIS SCADA 2290 Bishop Circle E. Dexter, MI 48130 734-424-1200

CUSTOMER	Republic Serv	/ices						CERTIFICATE #	REPS2385	55-1, 10
Address	28470 Citrin D	Drive; Romulu	ıs MI US 48174					JOB #	REPS2385	55-1
USER	Republic Serv	/ices; 28470 C	itrin Drive; Romulus M	MI US 48174					PAGE	10
OWNER REPRES	ENTATIVE	John Frost						TELEPHONE	734-946-	·1000
Service Date:	7,	/14/2023					Temp		Humidity:	45 %RH
Equip Location:		Plant	Sub/Parent:	:	Well 2	2	Position/Ch		ssure SEC	
NAMEPLATE										
Item Tested	Pressure Tra	nsmitter								
Manufacturer	Yokogawa			Model	Number	EJA530E-JDS7	7N-012EL/FU	J1/D1/JH05		
Serial Number	91W405865			Tag Nu	umber	PIT				
Operating Range	cal 0-1000 ps	ig		Proced	ure/Method	I	Fluke 754:	75x_umeng0000 re	ev Jul 2011	
	As Found	d - Within Spec	;	As L	.eft - Withir	n Spec				
	INPUT p	osig		OUTPUT	psig	I				
Line %		Applied		As Found	ООТ	As Left	OOT	Lo Spec	Hi Spec	
1		0		1		1		-2	+2	
2		250		248		248		248	252	
3		500		498		498		498	502	
4		750		748		748		748	752	
5		1000		998		998		998	1002	
6		Hart Addre	ess	1		1				
7										
Communicator:	Hart-OE	M Specific	Totalizer As F	ound	NA	Totalizer	As Left	NA		Gal
			Manufacturer	Model		Serial / ID Numb		Calibration Date	Calibration I	
		1 Fluke 2 Fluke	754	RG31 10Kpsi		JW-2395 SHOP-252		10/27/2022 3/20/2023	10/31/202 3/31/2024	
		3 Extech		300(ambient)		CMC-1772		1/11/2021	1/11/202	
Comments: no mA output; unit	comm with Hart	to PLC								
Deficiencies:										
Due (The results contai procedure utilized dates appearing on the	ned within relate only d, professional experi- certificate of calibrat	hrough an unbroken chain of meass to the item(s) calibrated. Pass/Fail ence. It is the responsibility of the us on and label are determined by clie =2 approx. 95% Confidence Level. This certificate shall not Decision Rule 1: Measureme	or In/Out of tolerance s ser of this equipment to ant for administrative pu All Certificates are pag be reproduced except i	tatements are t determine if th rposes without e 1 of 1 unless in full, without th	he opinions of UIS, Inc., de e results identified meet sp the written approval of UIS otherwise specified. Page in the written approval of UIS,	ecisions are based becific requirement b, Inc., and do not in numbers at the top Inc.	I on data from measurement is for accuracy and its inten mply continued conformant	nts made, ided use.	
						-	6 N.			
f Issue: 7/24/2023				1	Fech 1: C. I	vicCraw Tech	2: NA	ISO-8152	3D-ISO Cert 2015	; Rev Oct 202



Comment Summary Job #REPS238555-1



1

PAGE

Page:

2

Date: 7/14/2023

Customer Republic Services

User Republic Services

Pla	ant: 28470 Citrin Drive	Page:	1
Substati	on: Well 1	Date:	7/14/2023
Positi	on: Annulus Pressure PRI		
Equipme	ent: ISO-81235D1-ISO CERT 2015		
Comments:	Hart Address 1		
	switched with datalogger due to transmitter dropping out during operation serial 5613698		

Plant: 28470 Citrin Drive Substation: Well 1

Position: Annulus Pressure SEC

Equipment: ISO-81235D1-ISO CERT 2015

Comments: Hart Address 1

switched with datalogger due to transmitter dropping out during operation serial 5613698

Plant:	28470 Citrin Drive	Page:	3
Substation:	Well 1	Date:	7/14/2023
Position:	Well Flow		
Equipment:	ISO-81235D1-ISO CERT 2015		

Comments: 3" hastalloy schedule 40, 3.50 OD, wall thickness 0.216", 0.46" spacing at 1 pass, use other for pipe material.

Pla	ant: 28470 Citrin Drive	Page:	6
Substati	ion: Well 2	Date:	7/14/2023
Positi	ion: Annulus Pressure Primary		
Equipme	ent: ISO-81235D1-ISO CERT 2015 (4)		
Comments:	no mA output; unit comm with Hart to PLC		

Plant:	28470 Citrin Drive	Page:	7
Substation:	Well 2	Date:	7/14/2023
Position:	Annulus Pressure SEC	-	
Equipment:	ISO-81235D1-ISO CERT 2015 (5)		
Comments: no m	A output; unit comm with Hart		

REVISED 2/26/2013



Comment Summary Job #REPS238555-1



٦

PAGE 2

Plant: 28470 Citrin Drive Substation: Well 2 Position: Well Flow Equipment: ISO-81235D1-ISO CERT 2015 (2) Comments: 3" hastalloy schedule 40, 3.50 OD, wall thickness 0.216", 0.46" spacing at 1 pass, use other for pipe material.	Page: 8 Date: 7/14/2023
Plant: 28470 Citrin Drive Substation: Well 2 Position: Well Pressure Primary Equipment: ISO-81235D1-ISO CERT 2015 (5)	Page: 9 Date: 7/14/2023
Comments: no mA output; unit comm with Hart to PLC	
Plant: 28470 Citrin Drive Substation: Well 2 Position: Well Pressure SEC (logger) Equipment: ISO-81235D1-ISO CERT 2015 (6)	Page: 10 Date: 7/14/2023
Comments: no mA output; unit comm with Hart to PLC	

 Tested By:
 Tested By:
 REVISED 2/26/2013



Deficiency Summary Job #REPS238555-1



1

9

Date: 7/14/2023

PAGE

Page:

Customer Republic Services

User <u>Republic Services</u>

Plant: 28470 Citrin Drive

Substation: Well 2

Position: Well Pressure Primary Equipment: ISO-81235D1-ISO CERT 2015 (5)

Deficiencies: mA found in tolerance. Display is not correct but doesn't impact anything to their SCADA.

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

Calibration Certificate

21

Model : Serial Number :

Badger Low Temp 91873 Top

Specifications

Calibration Pressure Range: Calibration Temperature Range:

Pressure:	Accuracy	
	Resolution	
Temperature:	Accuracy	
	Resolution	

0.00	10,000.00	psi	
0.00	150.00	°C	

± 2.4000 psi (0.024 %FS)
± 0.0300 psi (0.0003 %FS)

± 0.40 °C ± 0.001 °C Range : Last Cal. Date : 10,000.00 psi 21-April-2023

Calibration Summary

Pressure: Accuracy (maximum error)

0.70 psi

Temperature: Accuracy (maximum error)

0.27 °C

Traceability Statement

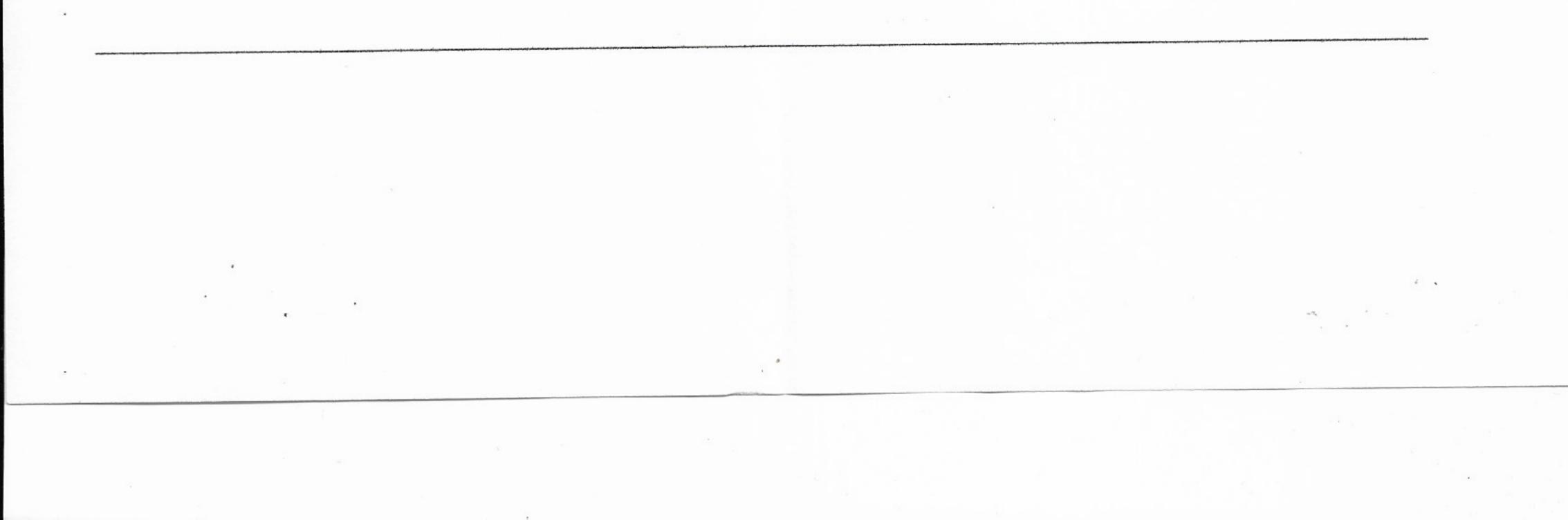
All working standards are traceable to national or internationally recognized standards.

Calibrated with Cal-Scan DWG #

6

Calibrated by:

Ryan Kryzanowski



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

Calibration Certificate

Model : Badger Serial Number : 91874

91874 Bottom

Specifications

Calibration Pressure Range: Calibration Temperature Range:

Pressure:

Accuracy

Resolution

± 2.4000 psi (0.024 %FS)

150.00 °C

10,000.00

± 0.0300 psi (0.0003 %FS)

psi

Range :

Last Cal. Date :

10,000,00 psi 21-April-2023

Temperature:

Accuracy

Resolution

± 0.001 °C

0.40 °C

Calibration Summary

Pressure: Accuracy (maximum error)

Temperature: Accuracy (maximum error)

0.16 °C

1.22 psi

Traceability Statement

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

Calibrated with Cal-Scan DWG #

6

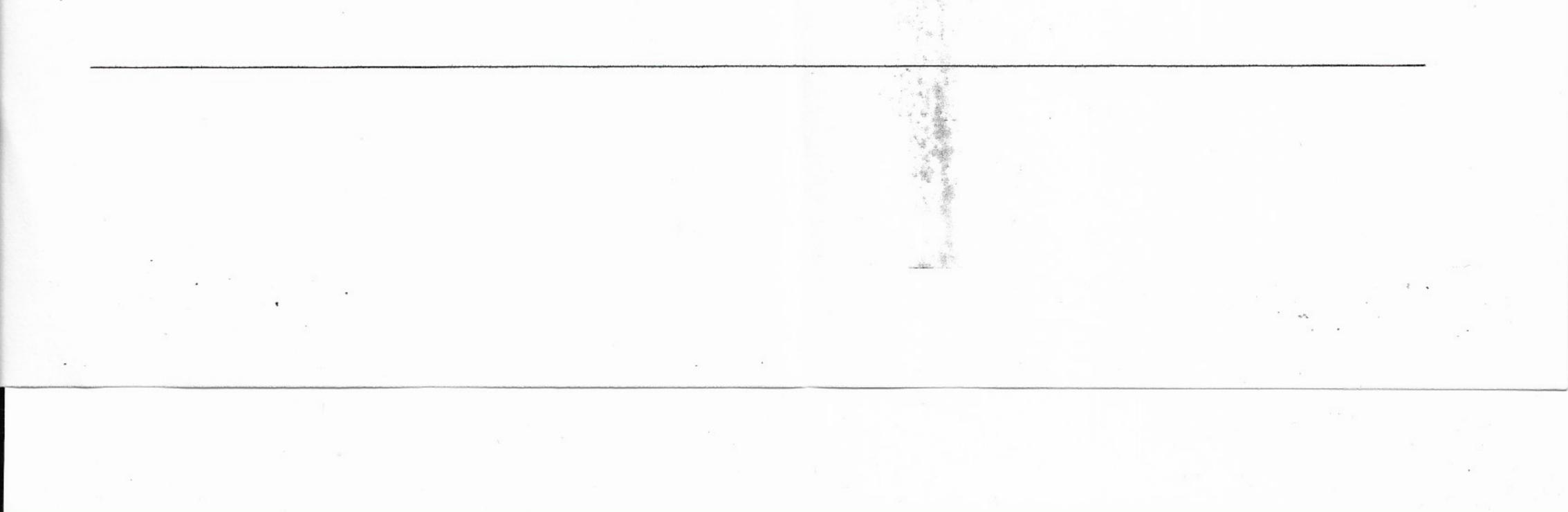
0.00

0.00

±

Calibrated by:

Ryan Kryzanowski



APPENDIX E

EPA STANDARD ANNULAR PRESSURE TEST FORM



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY STANDARD ANNULAR PRESSURE TEST

Operator Republic I	ndustrial and Energy Sol	lutions, LLC	State Permit No. M-452
Address 28470 Citri	in Drive Romulus, MI 48	174	USEPA Permit No. MI-163-1W-C010
			Date of Test 08/11/2023
Well Name Wel	#1-12		Well Type Waste Disposal (Class 1)
LOCATION INFOR	MATION	SW Quarter	of the <u>NW</u> Quarter of the <u>SE</u> Quarter
of Section 12	; Range	9E ; Toy	wnship <u>3S</u> ; County <u>Wayne</u> ;
Company Represent	ative Mike A	Hdyrman	; Field Inspector Johanne Mitock;
Type of Pressure Ga	uge	inch face; 7	200 psi full scale;0.1 psi increments;
New Gauge? Yes 🗖	No 🖾 If no, date o	f calibration 07-14-	-2023 Calibration certification submitted? Yes 🔳 No 🔲
TEST RESULTS			5-year or annual test on time? Yes 🖬 No 🔲
Readings must be tal minimum of 30 minu			
minutes for Class I v		and v wens and o	
For Class II wells, an			
psig. For Class I we			Newly permitted well? Yes 🔲 No 🖾
greater of 300 psig o injection pressure.	r 100 psi above max	amum permitted	
Original chart record	lings must be submit	tted with this forr	m.
•	D (*	• 、	
Time	<u>Pressure (i</u> Annulus	<u>n psig)</u> Tubing	Casing size 7"
1553	1,161,57	154,59	Tubing size 4-1/2"
1603	1,158.17	154.03	Packer type Model 12, Hastelloy
1613	1155.07	153.04	Packer set @ 4040'
1623	1,152.24	152.05	Top of Permitted Injection Zone 3973
1633	1,149.55	1 51 .48	Is packer 100 ft or less above top of
1643	1,146.73	150.78	Injection Zone ? Yes 🗵 No 🔲
1653	1144,47	150.21	If not, please submit a justification.
	1		Fluid return (gal.)
			Comments:
Test Pressures:	Max. Allowable P	ressure Change: I	Initial test pressure x 0.03 34,83 psi
			Test Period Pressure change7, psi
T . D 1 -			

Test Passed
Test Failed

If failed test, well must be 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.

I certify under penalty of law that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (See 40 CFR 144.32(d))

Mike Ablerman Printed Name of Company Representative Signature of Company Representative Signature of Company Representative A Shutoff alarms tested, and passed Date

UNITED STATE	ES ENVIRONMENTAL PROTE NOTICE OF INSPECTION	CTION AGENCY
EPA Regional Office USEPA Region V WU-16J Chicago, IL 60604	Environmental Solutions AQ P.O. Box 6052 Oxford, OH 45056	Firm to be inspected Republic Industrial + Energy Solutions, LLC
Date 8/11/23 Time 5:00 PM	Notice of inspection is hereby given a Safe Drinking Water Act (42 U.S.C §	· · · · · · ·
facilities, and obtaining samples to detern applicable underground injection control p compliance with the Safe Drinking Water	es, papers, processes, controls and sy stell nine whether the person subject to an Ter program has acted or is acting in	T
Section 1445 (b) of the SDWA(42 U.S Receipt of this Notice of Inspection is	S.C §300j-4(b) is quoted on the reverse hereby acknowledged.	of this form
Firm Representative	Date - 8/11/23	Inspector Jun Antic

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY STANDARD ANNULAR PRESSURE TEST

Operator	Republic Industrial & Energy Soltions, LL(State Permit Number	00452
Address	28470 Citrin Drive	EPA Permit Number	M1-163-1W-0010
	Romulus, MI 48174	Date of Test	8/11/23
Well Name & Number	Well 1-12	Well Type	IN

Quarter	Quarter	Quarter	r Section Township Range		Township Name	County	State	
Sw	NW	. 5E	12	35	9E	George town	Way	ne MI
GPS file	number		Latitude			Longitude	/	Elevation
			42.	243576		- 83. 316	826	

Company Representative Mike Alder Man Field Inspector Jo Anne Miteck GAUGE CERTIFICATION

Type Pressure Gauge $Y_{acoquered} = \overline{JA 530} = \frac{3}{2}$ inch face 7200 psi full scale <u>G</u> psi increments New Gauge? Yes \Box No \emptyset If no, date of calibration 7/14/23 Calibration certification submitted? Yes \emptyset No \Box

			TESTR	ESULTS			
Time	3:53	4:03	4:13	4:23	4:33	4:43	4152
Annulus	1162	1158	1155	1152	1150	1147	1144
Tubing	155	154	153	152	151	151	150

WEL	L STAT	rus	WELL C	ONFIGURATION	
5 Year		TD#	Casing Siz		
2 Year TA		TD#	Tubing Siz		
Rework after failure	D	TD#	Packer Ty		
New Permit		TD#	Packer set		×
Enforcement Action		TD#		<u> </u>	
Annual Class 1	Ø	TD#	Fluid Retu	Im (gal) NA-pressure t	ank
Test Pressures:	Max.	Allowable Pressure Change:	Initial test pressure	re x .03 34 psi	
1			Test Pressure chan	nge / 8 nsi	
Test Passed & Test F	ailed	: If failed test, well must shut in, i	no injection can occur,	and USEPA must be contacted within	
24 hours. Corrective activ COMMENT:	on needs	to occur, the well retested, and write	itten authorization rece	eived before injection can recommence.	
	C	$t \neq Alor it$		11 defenden (1)	
		lest. Also witness		12 Justol (+/Mary) -1ste	24
Emma Atkin	ison	(EGLE) witness	2(4)	Test.	
			3		
Signature of Company	y Repre	sentative]	Date	
Midlad	Ma	Ins		8/11/23	
Signature of UIC Fiel	d Inspe	ctor]	Date	
aphur	m	n		8/11/23	

APPENDIX F

EPA RADIOACTIVE TRACER SURVEY FORM



BACKGROUND INFORMATION FOR REVIEW OF RADIOACTIVE TRACER SURVEYS FOR CEMENT INTEGRITY

Facility Name			Operator		
Well Name			USEPA Permit Numbe	Witness	
State	Test Date		Logging Company	Depth Reference:	
				Kelly Bushing	Ground Level
		Well and Opera	tional Informatio	on <u>s</u>	
Long StringCsg Material	Long String Casing OD, ins	Casing weight, #/ft	Casing ID, ins.	Long String Casing Le	ngth, ft
Tubing Material	Tubing OD, ins	Tubing weight, #/ft	Tubing ID, ins.	Tubing Length, ft	
Tail Pipe Material	Tail Pipe OD, ins	Tail Pipe, weight#/ft.	Tail Pipe ID, ins.	Tail Pipe Length, ft	Tail Pipe Depth
	OpenHole diameter, ir	TD, ft	PBTD, ft	Top of Open Interval,	ft
Packer Model	Packer Type	Top of Packer, ft	Bottom of Packer, ft		
	1	Geologica	I Information	1	
Lowermost USDW Na	ime	Fms in Confining Zon	e	Fms in Injection Zone	
Base of USDW, ft		Depth to top of Confin	ement Zone	Injection Zone Top, ft	
		TOOL INF	ORMATION		
Ejector, ft above BDE	TDET, ft above BDET	MDET, ft above BDET	-		
		CALIBRATION	INFORMATION		
Depth BDET, ft	Depth TDET, ft	BDET CPSPI	Lithology (Warm/Cool)	Maximum Reading, LI	Minimum Reading, LD
Depth BDET, ft	Depth TDET, ft	BDET CPSPI	Lithology (Warm/Cool)	Maximum Reading, LD	Minimum Reading, LD
	FIR			ENCE	
Flow Rate, gpm	Velocity in tubing, fps	Depth of deflection on 1st pass, ft	Deflection on 1st pass, LD		Passes Through Slug
Slug Split? yes or no	Depth of Split, ft	Moved up, yes or no	Minimum Slug Depth, ft	Distance above shoe, ft	Maximum Slug Depth, ft
		FIRST STAT	IONARY TEST		
Depth of BDET, ft	Depth of TDET, ft	BDET to open interval, ft	Time at station, mins		Log Divisions per Minute
Depth at Injection, ft		BDET above end of tubing or casing, ft	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 G

RAW PRESSURE AND TEMPERATURE DATA (ABRIDGED)



Start Time: 09/07/23 20:28 Location: Romulus, MI Recorder Serial No: 91874 Calibration Date: APR 21/23 Pressure Range: 10006.0 psig

0.907072 20:22:23 184.00 7:33 0.90773 2:15:20 284.33 199773 2:15:20 284.33 2:15:20 2:26:17:20 2:26:120 2:26:120 2:26:120 2:26:120 <	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F
09/07/23 21:03:02 196.714 73.390 09/07/23 21:03:02 266.870 71.461 09/07/23 21:03:22 196.714 11:441 11:441 11:441 09/07/23 21:03:22 22:08.641 73:120 266.870 07/0723 21:01:20 22:01.771 71.462 09/07/23 21:03:22 22:08.641 75:120 20:07/23 21:01:20 22:01.771 71.463 09/07/23 21:01:20 22:08.671 71.450 07/072 21:01:20 22:01.771 71.450 09/07/23 21:01:20 22:01.771 77.780 07/072 21:01:20 22:01.781 71.150 09/07/23 21:01:20 20:01.281 71.1451 71.150 20:07/23 21:01:20 22:01.281 71.150 09/07/23 21:01:20 20:01.281 71.1451 71.1451 71.1451 71.1451 09/07/23 21:01:20 22:01.781 71.1451 71.1451 71.1451 71.1451 71.1451 09/07/23 21:01:20	09/07/23 20	0:28:20	1884.709	73.393	09/07/23	21:42:20	2241.918	69.733	09/07/23	22.56.20	2260 675	71 442
09/07/22 21:61:20 105:07/22 21:61:20 22:61:05 71:421 09/07/23 21:61:20 22:61:05 71:421 09/07/23 21:61:20 22:61:05 71:411 09/07/23 21:61:20 22:01:20												
99/07/23 210.21.20 212.8.474 74.102 99/07/23 214.62.00 224.482 64.875 97/07/23 210.120 2261.475 71.480 99/07/23 214.81.00 217.81.01 97/07/23 210.120 2261.857 71.490 99/07/23 216.420 215.176 77.726 99/07/23 216.457 71.519 99/07/23 216.81.01 77.776 99/07/23 216.81.01 71.519 99/07/23 216.81.02 2255.176 77.768 99/07/23 216.91.01 97/07/23 216.81.01 71.519 99/07/23 216.120 2255.437 77.678 99/07/23 216.910 70.316 97/07/23 236.185 71.538 99/07/23 216.81.02 75.638 99/07/23 216.82.02 2264.647 70.338 97/07/23 236.488 71.579 99/07/23 216.82.02 2264.547 71.538 99/07/23 216.82.02 2264.548 71.578 99/07/23 216.82.02 75.538 99/07/23 216.82												
99/07/23 21:53.20 21:53.20 21:53.20 22:61.207 71.450 99/07/23 21:53.20 22:61.207 71.450 22:61.207 71.450 99/07/23 21:53.207 71.772 99/07/23 21:50.207 22:61.217 71.772 99/07/23 21:51.207 71.772 99/07/23 21:50.207 22:61.217 71.772 99/07/23 21:51.207 71.766 99/07/23 21:51.207 22:61.217 71.533 99/07/23 21:51.207 71.66 99/07/23 21:51.207 22:61.207 71.533 99/07/23 21:61.200 22:64.403 70.413 99/07/23 21:61.200 22:64.404 71.533 99/07/23 21:61.200 22:64.203 71.646 99/07/23 21:61.200 22:64.404 71.539 99/07/23 21:61.200 22:64.203 71.646 99/07/23 21:61.200 22:64.407 71.546 99/07/23 21:61.200 22:64.203 71.646 99/07/23 21:61.200 22:64.617 71.546												
09/07/23 21:07:03 09/07/23 21:07:03 09/07/23 000 09/07/23 000 09/07/23 000 000	09/07/23 20	0:32:20	2128.674	74.102	09/07/23	21:46:20	2243.492	69.957	09/07/23	23:00:20	2261.475	71.482
0*07022 20:35:20 2185.22 2185.22 2185.21 71.513 0*07022 20:37:20 226.314 71.513 260/072 20:37:20 226.314 71.513 0*07022 20:37:20 220.25.314 77.465 0*07023 21:351 20:07:20 220.514 71.513 0*07022 20:20-20 20:07:20 71.655 0*07023 21:41:20 2245.349 70:457 71.553 0*07023 20:40-20 220:2.593 77.065 0*07023 21:41:20 2245.399 70:247 21:41:20 2245.392 70:414 220:42.91 71.553 0*070723 0:45:10 224:41:81 70:353 0*07073 21:41:20 224:11:81 71.553 0*07073 21:41:20 224:11:81 71.553 0*07073 21:41:20 224:11:81 71.553 0*07073 21:41:20 224:11:10 224:11:10 224:11:10 224:11:10 71.553 0*07073 21:11:10 71.553 0*07073 21:11:10 71.553 0*07073 21:11:10 71.			2163.014								2261.677	
09/07/22 25:65:20 2191.797 77.752 09/07/23 2:51:02 224.908 70.136 69/07/23 2:51:02 224.54:08 70.136 39/07/23 2:51:02 224.54:08 70.136 39/07/23 2:51:02 224.54:08 70.136 39/07/23 2:51:02 224.54:08 70.126 39/07/23 2:51:02 224.54:08 70.126 39/07/23 2:51:02 224.64:07 70.136 6/07/23 2:51:02 224.64:07 70.732 2:56:150 71.558 09/07/23 0:41:02 2206.420 72.66 76.278 0/07/23 2:16:178 70.136 6/07/23 2:16:18 71.550 09/07/23 0:44:120 2206.421 73.555 0/07/23 2:26:16 71.560 0/07/23 2:26:16 71.560 0/07/23 2:26:16 71.560 0/07/23 2:26:16 71.560 0/07/23 2:26:16 71.560 0/07/23 2:26:16 71.660 0/07/23 2:26:16 71.662 0/07/23 0:27/23 2:16:10 1:16:10 0/07/23 0:												
09/07/23 0137120 2195.176 77.966 04/07/23 01126 04/07/23 0116 04/07/23 01261 04/07/23 01261 04/07/23 01261 04/07/23 01261 04/07/23 01261 04/07/23 01261 04/07/23 01261 0266 04/07/23 01261 04/07/23 01261 0266 017 0												
09/07/23 20:538-20 2198.045 77.764 09/07/23 2:251.028 2:25												
09/07/23 01/07/23 02/07/23												
09/07/23 02/04/23												
0;0;0;7]3;0;2;41;20 224,41;20 76,675 0;7(7);23;2;15;20 224,646 77,151 0;7(7);23;2;15;20 224,648 71,575 0;0;0;7]3;20;41;20 226,649 75,695 0;7(7);23;2;15;20 224,646 70,535 0;7(7);23;2;15;20 224,1467 71,383 0;7(7);23;2;15;20 224,148 71,535 0;0;0;7]3;20;41;20 224,050 0;7(7);23;2;15;20 224,1578 71,646 0;7(7);23;2;15;20 224,140 71,536 0;0;0;7]3;20;44;20 2211,711 73,573 0;7(7);23;2;15;20 224,148 71,536 0;7(7);23;2;15;20 2244,140 71,628 0;0;0;7]3;20;44;20 2211,711 73,573 0;7(7);23;2;10;20 2244,846 71,536 0;7(7);23;2;11;20 2244,846 71,536 0;7(7);23;2;11;20 2244,845 71,648 0;7(7);23;2;11;20 2245,453 71,645 0;7(7);23;2;11;20 2245,453 71,645 0;7(7);23;2;120 2245,454 71,645 0;7(7);23;2;20;20 2255,455 71,665 0;7(7);23;2;21;20 2265,613 71,656 0;7(7);23;2;21;20 2266,239 71,646 0;7(7);23;2;21;20 2266,239 71,646 0;7(7);23;2;20;20;20 2266,256 71,646 </td <td></td>												
09/07/3 02/07/23												
09/07/23 02/07/23											2263.688	
09/07/3 20/41/28 2204.758 70.451 09/07/23 22113:20 2264.303 71.664 09/07/3 20/47:23 22114:20 2264.303 71.664 09/07/23 22114:20 2264.303 71.664 09/07/3 20/47:20 22110:20 2241.358 70.666 09/07/23 2116:20 2264.313 71.664 09/07/3 2015:20 2210:20 2241.358 70.666 09/07/23 2116:20 2264.814 71.664 09/07/33 2015:20 2214.520 2244.814 70.684 09/07/23 2116:20 2265.826 71.664 09/07/33 2015:20 2244.820 70.641 09/07/23 2120:22 2266.623 71.664 09/07/33 2015:20 2244.820 70.642 09/07/23 2120:22 2266.623 71.664 09/07/33 2015:20 2244.820 70.671 09/07/23 2120:22 2266.623 71.664 09/07/33 2015:20 2244.820 70.771 09/07/23 2120:22 <td< td=""><td>09/07/23 20</td><td>0:43:20</td><td>2206.921</td><td>75.955</td><td>09/07/23</td><td>21:57:20</td><td></td><td>70.383</td><td>09/07/23</td><td>23:11:20</td><td>2263.836</td><td>71.580</td></td<>	09/07/23 20	0:43:20	2206.921	75.955	09/07/23	21:57:20		70.383	09/07/23	23:11:20	2263.836	71.580
09/07/23 02/04/52 02/04/52 02/07/23 02/07/23 02/04/52 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>2246.925</td><td></td><td></td><td></td><td></td><td></td></td<>							2246.925					
09/07/33 02/07/33												
09/07/23 20:46:20 2211.791 73.573 09/07/23 22:21.202 2244.846 70.534 09/07/23 21:11:20 22:61.929 71.639 09/07/23 02:10:120 22:11.721 29/07/23 22:11:20 22:61.252 71.649 09/07/23 02:11:20 21:11.20 22:61.262 71.649 09/07/23 02:11:20 21:5.245 71.641 09/07/23 22:11:20 22:61.637 71.649 09/07/23 02:15:245 71.641 09/07/23 22:15:24 71.643 71.649 09/07/23 02:15:26 71.641 09/07/23 22:15:20 22:66.529 71.649 09/07/23 02:15:22 21:15 70.731 09/07/23 22:15:20 22:66.529 71.649 09/07/23 02:15:20 22:15:20 22:06.103 70.733 09/07/23 23:15:20 22:66.571 71.649 09/07/23 02:15:120 22:15:20 70.731 09/07/23 23:15:20 22:66.571 71.649 09/07/23 02:15												
09/07/23 20:49:02 2212.704 72.912 09/07/23 2248.834 70.559 09/07/23 2246.535 71.633 09/07/23 09/07/23 2219.120 2248.344 70.548 09/07/23 2318.120 2266.257 71.643 09/07/23 09/07/23 2215.126 71.641 09/07/23 2216.120 71.643 09/07/23 015120 2214.101 71.661 09/07/23 2216.125 71.662 09/07/23 015120 2216.161 71.661 09/07/23 2216.125 71.661 09/07/23 015120 221.0157 61.18 09/07/23 2210.120 70.771 09/07/23 2212.120 2260.105 70.777 09/07/23 2212.120 2260.105 70.779 09/07/23 2212.120 2260.105 70.779 09/07/23 2212.120 2260.105 71.740 09/07/23 2212.120 2250.184 70.779 09/07/23 2212.120 2260.183 71.740 09/07/23 0112.00 221.120 221.00.120 221.												
09/07/23 02:05:120 2213.336 72.270 09/07/23 02:04:20 2248.314 70.364 09/07/23 23:15:20 2265.463 71.649 09/07/23 02:05:120 2214.757 71.146 09/07/23 22:05:20 22:65.463 71.666 09/07/23 05:120 22:1.780 70.1146 09/07/23 22:05:20 22:66.23 71.666 09/07/23 09:51:20 22:1.780 70.166 09/07/23 22:05:20 22:66.23 71.666 09/07/23 09:51:20 22:1.780 70.116 09/07/23 22:05:20 70.737 09/07/23 22:26:28 70.737 09/07/23 22:26:28 70.737 09/07/23 22:26:28 70.737 09/07/23 22:26:27 71.741 11.688 09/07/23 02:05:20 22:15:20 22:01.730 70.737 09/07/23 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20 22:15:20<												
09/07/23 02:51:20 2244.01 70.641 09/07/23 03/07/23 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
09/07/23 02:052:0 22:14.757 71.146 09/07/23 22:05.20 22:05.20 22:05.625 71.662 09/07/23 02:05.32:0 22:15.748 70.617 09/07/23 22:12.20 22:66.029 71.662 09/07/23 02:05.52:0 22:15.780 70.616 09/07/23 22:05.20 22:66.029 71.674 09/07/23 02:05.52:0 22:17.523 66:15 09/07/23 22:05.20 70.714 09/07/23 22:26.20 71.674 09/07/23 02:05.520 22:17.523 66:150 09/07/23 22:16.20 70.771 09/07/23 22:26.120 22:66.107 71.168 09/07/23 02:05.92:0 22:16.120 60:03 09/07/23 22:16.120 70.631 09/07/23 22:16.120 22:67.162 71.7120 09/07/23 02:05.120 62:16.103 09/07/23 22:16.120 70.031 09/07/23 22:16.120 70.031 09/07/23 22:16.120 70.031 09/07/23 22:16.120 70.031 09/07/23 22:16.120												
θ9/07/23 20:53:20 215:245 70.667 99/07/23 212:12:0 225:83:3 71.664 99/07/23 212:12:0 225:83:3 71.674 99/07/23 212:12:0 226:53:2 226:53:2 226:53:2 71.674 99/07/23 212:52:2 226:63:8 71.78 99/07/23 212:52:2 226:63:8 71.68 99/07/23 21:56:20 221:50 66:03 39/07/23 21:21:20 226:05 71.77 99/07/23 21:21:20 226:05 71.78 99/07/23 21:21:20 221:50 66:03 99/07/23 21:12:0 221:50 71.73 99/07/23 21:01:20 221:05:0 71.73 99/07/23 21:01:20 221:05:0 71.73 99/07/23 21:01:20 221:05:0 71.74 99/07/23 21:01:20 221:05:0 71.74 99/07/23 21:01:20 222:05:0 71.74 99/07/23 21:01:20 222:05:0 71.74 99/07/23 21:01:20 222:05:0 71.74 99/07/23 21:0												
09/07/23 20:55:20 2216.371 66.16 09/07/23 22:09:20 2249.562 70.731 09/07/23 22:12:00 2266.258 71.669 09/07/23 20:55:20 2217.937 66.138 09/07/23 22:12:20 2255.105 70.737 09/07/23 22:12:20 2256.507 71.698 09/07/23 20:55:20 2218.500 66.360 99/07/23 22:12:20 2250.584 70.779 09/07/23 22:12:20 2257.584 70.795 09/07/23 22:12:20 2267.763 71.719 09/07/23 21:01:20 22:15:20 67.660 09/07/23 22:11:20 2251.565 70.811 09/07/23 22:13:20 266.488 71.739 09/07/23 21:03:20 22:21.920 66.664 09/07/23 22:19:20 22:19:07.082 70.811 09/07/23 22:13:20 266.488 71.740 09/07/23 21:03:20 22:22.190 66.669 09/07/23 22:19:20 22:19:20 22:19:20 22:19:20 22:19:20 22:19:20 22:19:20<												
09/07/23 20:56:20 2217.523 66.136 09/07/23 2211.020 2249.832 70.737 09/07/23 2216.5120 2266.571 71.696 09/07/23 20:55:20 2217.910 66.360 09/07/23 2217.920 2267.077 71.696 09/07/23 21:05:20 2219.121 67.300 07/73 22:12:20 2250.309 70.775 09/07/23 22:12:20 2267.530 71.714 09/07/23 21:01:20 2219.712 67.763 71.720 09/07/23 21:02:20 2221.50 67.360 09/07/23 22:11:20 2251.537 0.861 09/07/23 23:31:20 2266.520 71.734 09/07/23 21:05:20 2221.50 66.663 09/07/23 22:11:02 2251.823 70.910 09/07/23 23:31:20 2266.859 71.748 09/07/23 21:05:20 2221.407 66.439 09/07/23 22:12:02 2252.177 70.350 09/07/23 23:31:20 2266.459 71.748 09/07/23 21:06:10<	09/07/23 20	0:54:20	2215.780	70.105	09/07/23	22:08:20	2249.368	70.684	09/07/23	23:22:20	2266.029	71.674
09/07/23 20:57:20 2217.923 66.713 09/07/23 2211.120 2250.105 70.775 09/07/23 02:16.20 2266.880 71.698 09/07/23 20:59:20 2218.500 66.500 09/07/23 22:11.20 2250.584 70.775 09/07/23 22:12.22 20:55:20 22:67.330 71.714 09/07/23 21:01:20 22:15:10 70.810 09/07/23 22:12:10 22:02.20 26:0.637 71.738 09/07/23 21:01:20 22:1.510 70.810 09/07/23 23:13:120 22:6.837 71.738 09/07/23 21:01:20 22:1.520 67.064 09/07/23 22:11:20 22:1.520 70.051 09/07/23 23:13:20 22:64.697 71.738 09/07/23 21:01:20 22:1.520 66.490 09/07/23 21:01:20 22:1.520 68:10 09/07/23 23:13:20 22:1.52 68:10 10/07/23 23:13:20 22:1.52 68:10 10/07/23 21:01:20 22:1.52 68:10 10/07/23 21:01:20	09/07/23 20	0:55:20	2216.371	69.616			2249.562	70.714			2266.258	71.681
09/07/23 20:53:20 2217.910 68.360 09/07/23 22:16.200 2260.707 71.698 09/07/23 21:05:20 2218.500 68.053 09/07/23 22:15.20 25:07.33 70.795 09/07/23 22:28:20 2267.542 71.720 09/07/23 21:01:20 2219.718 67.546 09/07/23 22:15.55 70.819 09/07/23 23:31:20 2266.763 71.734 09/07/23 21:03:20 2221.560 67.360 09/07/23 22:15.55 70.819 09/07/23 23:31:20 2266.837 71.734 09/07/23 21:06:20 2221.860 66.633 09/07/23 22:11:20 2255.277 70.915 09/07/23 23:34:20 2268.635 71.748 09/07/23 21:06:20 2224.031 66.334 09/07/23 22:12:02 225.217 70.955 09/07/23 23:34:20 2268.635 71.762 09/07/23 21:06:20 2225.336 65.956 09/07/23 22:21:02 22:3.4102 22:64.647 71.762 <td></td>												
09/07/23 20:53:20 22:8,500 66,033 09/07/23 22:17:20 22:67:330 71.714 09/07/23 21:00:20 22:19.122 67.790 09/07/23 22:15:130 70.819 09/07/23 22:12:8:20 22:67.542 71.720 09/07/23 21:00:20 22:06.650 67.300 09/07/23 22:15:150 70.861 09/07/23 23:10:20 22:66.037 71.738 09/07/23 21:00:20 22:21.590 67.66 09/07/23 22:11:20 22:51.655 70.811 09/07/23 23:31:20 22:66.639 71.744 09/07/23 21:00:20 22:22.198 66.649 09/07/23 22:10.20 22:52.77 70.915 09/07/23 23:35:20 26:66.37 71.744 09/07/23 21:00:20 22:22.02 22:5.477 70.915 09/07/23 23:35:20 26:66.37 71.764 09/07/23 21:01:20 22:5.437 70.919 09/07/23 23:35:20 26:61.37 71.764 09/07/23 21:01:20 22:01.656												
09/07/23 21:01:20 2219.721 67.540 09/07/23 22:21.522 71.720 09/07/23 21:01:20 2219.781 67.546 09/07/23 22:11.537 70.841 09/07/23 23:23:20 22:67.542 71.720 09/07/23 21:01:20 22:01.505 67.063 09/07/23 22:15.55 70.861 09/07/23 23:31:20 22:68.25 71.734 09/07/23 21:01:20 22:21.802 70.910 09/07/23 23:33:20 22:68.438 71.740 09/07/23 21:01:20 22:22.012 70.919 09/07/23 23:33:20 22:68.438 71.740 09/07/23 21:01:20 22:24.012 02:25.2547 70.935 09/07/23 23:33:20 22:69.407 71.766 09/07/23 21:01:20 22:25.333 65.769 09/07/23 22:23:20 22:33.452 22:69.407 71.783 09/07/23 21:11:20 22:24.593 65.526 09/07/23 23:34:20 22:70.707 71.810 09/07/23 21:11:20												
09/07/23 21:01:20 221:01:20 222:0.50 67.300 09/07/23 22:0:360 70.841 09/07/23 23:3:0:20 226.0:50 71.738 09/07/23 21:0:1:20 222:0:50 67.300 09/07/23 22:1:5:20 71.738 09/07/23 21:0:1:20 222:0:90 66.486 09/07/23 22:1:0:52 71.738 09/07/23 21:0:5:20 222:1:90 66.486 09/07/23 22:1:0:20 22:0:0:20 22:0:0:20 22:0:0:20 22:0:0:20 22:0:0:20 22:0:0:0:20 2:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0												
09/07/23 21:02:20 222:05:00 67.063 09/07/23 22:15:56 70.862 09/07/23 23:31:20 22:66.25 71.734 09/07/23 21:05:20 222:1.929 66.484 09/07/23 22:1.823 70.901 09/07/23 23:33:20 22:66.25 71.734 09/07/23 21:05:20 222:1.802 70.910 09/07/23 23:33:20 22:66.25 71.734 09/07/23 21:06:20 22:1.612 22:52.277 70.935 09/07/23 23:33:20 22:69.17 71.764 09/07/23 21:06:20 22:21.492 66.344 09/07/23 21:06:20 22:53.37 71.764 09/07/23 21:06:20 22:53.33 65.769 09/07/23 22:26:10 22:53.488 71.011 09/07/23 23:35:20 22:66.64 71.784 09/07/23 21:16:20 22:65.33 65.526 09/07/23 23:41:20 22:06.67 71.784 09/07/23 21:16:20 22:64.643 65.526 09/07/23 23:41:20 22:07.07												
09/07/23 21:03:20 2221.520 67.063 09/07/23 22:13:20 2268.250 71.734 09/07/23 21:03:20 2228.18:20 2221.823 70.010 09/07/23 23:31:20 2268.659 71.734 09/07/23 21:05:20 2223.487 66.490 09/07/23 22:15:20 2252.277 70.955 09/07/23 23:31:20 2268.659 71.746 09/07/23 21:01:20 2224.752 66.159 09/07/23 22:15:20 2252.817 70.956 09/07/23 23:15:20 2269.067 71.774 09/07/23 21:01:20 2225.333 65.965 09/07/23 22:15:20 2253.460 71.090 09/07/23 23:31:20 2269.667 71.774 09/07/23 21:11:20 2226.633 65.565 09/07/23 22:15:20 2253.458 71.040 09/07/23 23:41:20 2270.056 71.784 09/07/23 21:11:20 2226.636 65.256 09/07/23 22:14:20 22:01.17 11.803 09/07/23												
09/07/23 21:04:20 2222,199 66.649 09/07/23 22:18:20 22:19:20 22:20,202 70.901 09/07/23 2:3:3:20 22:68.438 71.740 09/07/23 21:06:20 22:21.902 22:22.00 22:22.130 22:22.130 22:3:3:120 22:68.435 71.754 09/07/23 21:06:20 22:22.120 22:22.547 70.955 09/07/23 2:3:3:6:20 22:69.467 71.766 09/07/23 21:01:20 22:25.338 65.965 09/07/23 2:2:1:02 2:2:1:02 2:2:1:01 09/07/23 2:3:1:02 2:6:0 71.766 09/07/23 21:1:1:02 22:6:63 65.562 09/07/23 2:2:1:1:0 2:2:0 2:5:1:1 10:10 09/07/23 2:4:1:0 2:2:0 2:5:0:1 1:7:89 09/07/23 2:1:1:1:20 2:2:0:3 65:1:50 09/07/23 2:1:1:1:00 2:2:0:0:00 2:3:1:1:10 2:2:0:0:00 2:3:1:10 2:2:0:0:20 2:0:0:00 2:0:0:00 2:0:0:00 2:0:0:00 2:1:1:1:00 2:0:0:00 2:0:0:00 <td></td>												
09/07/32 21:06:20 2224.09 66.39 09/07/23 22:52.547 70.355 09/07/23 23:34:20 226.079 11.762 09/07/23 21:06:20 2224.915 66.159 09/07/23 22:22.547 70.915 09/07/23 23:35:20 226.049 11.762 09/07/23 21:01:20 2225.933 65.769 09/07/23 22:32:120 2253.040 70.971 09/07/23 23:35:20 2269.664 71.774 09/07/23 21:11:20 2226.933 65.520 09/07/23 22:14:10/07/23 23:31:20 2269.664 71.783 09/07/23 21:11:20 2226.933 65.526 09/07/23 22:14:10/07/23 23:31:20 22:11.710 22:01:056 11.784 09/07/23 21:11:20 22:28.038 65.128 09/07/23 22:11.110 22:11.110 22:11.120 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.110 22:11.111 09/07/23 23:11.110 22:												
09/07/23 21:07:20 2224.091 66.334 09/07/23 22:5:27 70.958 09/07/23 23:35:20 2269.2079 71.762 09/07/23 21:00:20 2225.383 65.965 09/07/23 22:33:20 2253.1040 70.991 09/07/23 23:37:20 2269.467 71.774 09/07/23 21:11:20 2226.633 65.769 09/07/23 22:23.3120 2253.160 71.011 09/07/23 23:39:20 2269.664 71.783 09/07/23 21:11:20 2227.349 65.404 09/07/23 22:22:22 2233.714 71.047 09/07/23 23:41:20 2270.075 71.910 09/07/23 21:11:20 2228.733 65.151 09/07/23 22:22:22 2254.547 71.033 09/07/23 23:44:20 2270.070 71.801 09/07/23 21:11:20 2230.088 64.943 09/07/23 22:32:20 2255.166 71.123 09/07/23 23:44:20 2271.301 71.833 09/07/23 21:11:20 2231.211 64.576	09/07/23 21	1:05:20	2222.880	66.663	09/07/23	22:19:20	2252.082	70.919	09/07/23	23:33:20	2268.659	71.748
09/07/23 21:08:20 2224.752 66.159 09/07/23 22:22:20 225.817 70.971 09/07/23 22:3:36:20 2269.467 71.764 09/07/23 21:11:20 2225.933 65.769 09/07/23 22:2:2:20 2253.260 71.011 09/07/23 23:38:20 2269.467 71.774 09/07/23 21:11:20 2225.493 65.982 09/07/23 22:2:2:20 2233.714 70.971 09/07/23 23:38:20 2269.467 71.783 09/07/23 21:11:20 2226.493 65.258 09/07/23 22:12:12 2233.911 71.657 09/07/23 23:41:20 2270.077 71.803 09/07/23 21:16:20 2230.484 64.981 09/07/23 22:13:12 2244.787 71.033 09/07/23 23:44:20 2270.670 71.807 09/07/23 21:16:20 2230.625 64.693 09/07/23 22:31:20 2254.975 71.122 09/07/23 23:44:20 2271.131 71.838 09/07/23 21:16:20 2231.518												
09/07/23 21:09:20 225:383 65.965 09/07/23 22:31:20 223:30.40 70.992 09/07/23 23:37:20 226.967 71.778 09/07/23 21:11:20 2225.663 65.562 09/07/23 22:25:20 223.361 71.014 09/07/23 23:38:20 2269.869 71.783 09/07/23 21:11:20 2227.349 65.464 09/07/23 22:25:20 223.314 71.047 09/07/23 23:44:20 2270.056 71.789 09/07/23 21:15:20 2228.038 65.115 09/07/23 22:24:20 224.497 71.030 09/07/23 23:44:20 2270.707 71.801 09/07/23 21:15:20 2230.088 64.843 09/07/23 22:31:20 2254.977 71.113 09/07/23 23:45:20 2271.301 71.803 09/07/23 21:15:20 2231.271 64.537 09/07/23 22:31:20 2255.166 71.138 09/07/23 23:45:20 2271.301 71.839 09/07/23 21:20:20 223.493												
09/07/23 21:11:20 225.933 65.769 09/07/23 22:12:120 225.3260 71.011 09/07/23 23:38:20 2269.664 71.789 09/07/23 21:11:20 2226.083 65.582 09/07/23 22:25:20 223.714 71.047 09/07/23 23:34:20 2269.869 71.789 09/07/23 21:11:20 2220.083 65.286 09/07/23 22:21:20 223.714 71.047 09/07/23 23:41:20 2270.056 71.807 09/07/23 21:11:20 2220.419 64.981 09/07/23 22:21:20 224.477 71.031 09/07/23 23:41:20 2270.070 71.807 09/07/23 21:11:20 2230.625 64.633 09/07/23 22:31:20 224.477 71.138 09/07/23 23:45:20 2271.139 71.823 09/07/23 21:11:20 2231.271 64.537 09/07/23 22:32:72 71.182 09/07/23 23:45:20 2271.139 71.823 09/07/23 21:11:20 2231.271 64.537 0												
09/07/23 21:11:20 2226.633 65.522 09/07/23 22:33:20 2269.869 71.789 09/07/23 21:12:20 2227.349 65.28 09/07/23 22:33:91 71.057 09/07/23 23:41:20 2270.271 71.803 09/07/23 21:13:20 228.083 65.151 09/07/23 22:21:20 2253.498 71.073 09/07/23 23:41:20 2270.271 71.803 09/07/23 21:15:20 228.139 61.151 09/07/23 22:21:20 2254.249 71.073 09/07/23 23:42:20 2270.470 71.801 09/07/23 21:15:20 2230.088 64.843 09/07/23 22:31:20 2254.787 71.123 09/07/23 23:44:20 2271.301 71.833 09/07/23 21:11:20 2231.892 64.378 09/07/23 22:31:20 2255.465 71.174 09/07/23 23:44:20 2271.301 71.833 09/07/23 21:12:20 233.523 64.378 09/07/23 22:35:166 71.180 09/07/23												
09/07/23 21:12:20 2227.349 65.404 09/07/23 22:53.714 71.047 09/07/23 23:40:20 2270.056 71.794 09/07/23 21:14:20 228.083 65.115 09/07/23 22:27:20 2253.991 71.057 09/07/23 23:41:20 2270.070 71.803 09/07/23 21:15:20 2229.419 64.981 09/07/23 22:14:24 71.093 09/07/23 23:44:20 2270.844 71.803 09/07/23 21:15:20 2230.625 64.693 09/07/23 22:14.787 71.128 09/07/23 23:45:20 2271.139 71.826 09/07/23 21:15:20 2231.892 64.378 09/07/23 22:15.677 71.128 09/07/23 23:45:20 2271.301 71.833 09/07/23 21:12:20 2231.892 64.378 09/07/23 22:15.872 71.182 09/07/23 23:44:20 2271.733 71.845 09/07/23 21:12:20 2233.523 64.058 09/07/23 22:15.872 71.182 09/07/23												
09/07/23 21:13:20 2228.083 65.258 09/07/23 22:27:20 2253.991 71.057 09/07/23 23:41:20 2270.271 71.803 09/07/23 21:15:20 2229.419 64.981 09/07/23 22:28:20 2254.249 71.073 09/07/23 23:44:20 2270.670 71.810 09/07/23 21:15:20 2230.088 64.843 09/07/23 22:13:20 2254.547 71.120 09/07/23 23:44:20 2270.670 71.810 09/07/23 21:15:20 2231.621 64.537 09/07/23 22:32:20 2255.166 71.138 09/07/23 23:44:20 2271.131 71.833 09/07/23 21:18:20 2231.892 64.537 09/07/23 22:33:20 2255.430 71.154 09/07/23 23:44:20 2271.131 71.843 09/07/23 21:21:20 2233.016 64.136 09/07/23 22:36:20 225.658 71.148 09/07/23 23:49:20 2271.147 71.850 09/07/23 21:22:20 2233.016 64.136 09/07/23 22:36:20 2276.558 71.128 09/07/23 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
09/07/23 21:14:20 2228.733 65.115 09/07/23 22:28:20 2254.249 71.073 09/07/23 23:42:20 2270.470 71.807 09/07/23 21:15:20 2230.088 64.981 09/07/23 22:14:20 2270.670 71.810 09/07/23 21:15:20 2230.025 64.633 09/07/23 22:31:20 2254.975 71.123 09/07/23 23:44:20 2271.139 71.833 09/07/23 21:15:20 2231.821 64.377 09/07/23 22:33:20 2255.430 71.154 09/07/23 23:46:20 2271.357 71.839 09/07/23 21:12:20 2233.016 64.376 09/07/23 22:35:20 2255.658 71.140 09/07/23 23:49:20 2271.897 71.850 09/07/23 21:22:20 2233.523 64.058 09/07/23 22:36:20 2256.517 71.180 09/07/23 23:49:20 2271.497 71.856 09/07/23 21:22:20 2234.017 64.040 09/07/23 22:36:20 2272.587 71.856 09/07/23 21:22:20 2234.651 64.023 09												
09/07/2321:16:202230.08864.84309/07/2322:30:202254.78771.11309/07/2323:44:202270.84471.81509/07/2321:117:202230.62564.69309/07/2322:31:202255.16671.13809/07/2323:46:202271.30171.82609/07/2321:19:202231.89264.37809/07/2322:32:202255.43071.15409/07/2323:46:202271.55771.83909/07/2321:21:202233.01664.13609/07/2322:35:202255.43071.14209/07/2323:44:202271.73371.84509/07/2321:21:202233.01664.13609/07/2322:35:202255.11571.18209/07/2323:51:202271.489971.85609/07/2321:22:202233.52364.05809/07/2322:37:202256.58471.22209/07/2323:51:202272.40071.86409/07/2321:21:202234.65164.40209/07/2322:36:202256.75971.23009/07/2323:55:202272.78671.87309/07/2321:21:202236.14366.22809/07/2322:46:202257.70771.29309/07/2323:55:202273.20971.88409/07/2321:22:202236.13866.28809/07/2322:44:202257.70771.29309/07/2323:55:202273.60771.89409/07/2321:28:202237.18567.37509/07/2322:46:202257.71771.29309/07/2323:55:20 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2270.470</td><td></td></td<>											2270.470	
09/07/23 21:17:20 2230.625 64.693 09/07/23 22:31:20 2254.975 71.122 09/07/23 23:45:20 2271.139 71.826 09/07/23 21:18:20 2231.211 64.537 09/07/23 22:32:20 2255.166 71.138 09/07/23 23:46:20 2271.537 71.839 09/07/23 21:12:02 2232.493 64.247 09/07/23 22:35:20 2255.658 71.174 09/07/23 23:49:20 2271.573 71.845 09/07/23 21:22:22 223.016 64.136 09/07/23 22:35:20 2255.672 71.182 09/07/23 23:49:20 2271.473 71.845 09/07/23 21:23:20 223.016 64.104 09/07/23 22:35:70 2256.323 71.211 09/07/23 23:51:20 2272.400 71.864 09/07/23 21:24:20 223.5168 64.923 09/07/23 22:35:75 71.220 09/07/23 23:55:20 2272.786 71.865 09/07/23 21:25:20 223.5168 65.59 09/07/23 22:42:20 2257.512 71.250 09/07/23 23:55:20	09/07/23 21	1:15:20	2229.419	64.981	09/07/23	22:29:20	2254.547	71.093	09/07/23	23:43:20	2270.670	71.810
09/07/2321:18:202231.27164.53709/07/2322:32:202255.16671.13809/07/2323:46:202271.30171.83309/07/2321:19:202231.89264.37809/07/2322:53:202255.43071.15409/07/2323:46:202271.55771.83909/07/2321:21:202233.01664.13609/07/2322:35:202255.65871.17409/07/2323:49:202271.89971.86509/07/2321:22:202233.52364.05809/07/2322:36:202256.11571.18209/07/2323:51:202272.14471.86609/07/2321:22:202234.65164.04009/07/2322:37:202256.58471.22209/07/2323:55:202272.78671.86409/07/2321:22:202235.16864.92309/07/2322:39:202256.58471.22009/07/2323:55:202272.78671.86509/07/2321:26:202235.16864.92309/07/2322:41:202257.75771.25009/07/2323:55:202273.02571.87509/07/2321:26:202236.43866.83909/07/2322:42:202257.71771.28309/07/2323:55:202273.42271.88409/07/2321:32:202236.63866.83909/07/2322:44:202257.70771.28309/07/2323:55:202273.42271.88409/07/2321:31:202237.63068.18509/07/2322:44:202257.70771.29309/07/2323:55:202												
09/07/2321:19:202231.89264.37809/07/2322:33:202255.43071.15409/07/2323:47:202271.55771.83909/07/2321:21:202232.49364.24709/07/2322:34:202255.65871.17409/07/2323:48:202271.73371.84509/07/2321:21:202233.52364.05809/07/2322:35:202255.65871.17409/07/2323:49:202271.189971.85609/07/2321:22:202233.52364.05809/07/2322:36:202256.11571.19809/07/2323:55:202272.14471.85609/07/2321:24:202234.65164.40209/07/2322:37:202256.58471.22109/07/2323:55:202272.78671.86509/07/2321:25:202235.16864.92309/07/2322:39:202256.75971.23909/07/2323:55:202273.02571.87509/07/2321:26:202235.16865.56909/07/2322:41:202257.51271.28309/07/2323:55:202273.02571.87509/07/2321:28:202236.82767.37509/07/2322:44:202257.70771.29309/07/2323:55:202273.62771.89409/07/2321:31:202237.63068.18509/07/2322:44:202257.70771.29309/07/2323:56:202273.42271.88409/07/2321:31:202236.87568.1809/07/2322:44:202257.70771.29309/07/2323:56:202												
09/07/2321:20:202232.49364.24709/07/2322:34:202255.65871.17409/07/2323:48:202271.73371.84509/07/2321:21:202233.01664.13609/07/2322:35:202255.87271.18209/07/2323:49:202271.89971.85009/07/2321:22:02233.52364.05809/07/2322:35:202256.11571.18009/07/2323:55:202272.14471.85609/07/2321:23:202234.01764.10409/07/2322:37:202256.32371.21109/07/2323:55:202272.40071.86409/07/2321:25:202235.16864.92309/07/2322:39:202256.75971.23009/07/2323:55:202272.78671.87309/07/2321:26:202236.43866.22809/07/2322:41:202257.31671.26709/07/2323:55:202273.02571.87309/07/2321:27:202236.43866.83909/07/2322:41:202257.51271.28309/07/2323:55:202273.20971.88409/07/2321:28:202236.43866.83909/07/2322:44:202257.92871.30609/07/2323:55:202273.56771.89409/07/2321:30:202237.18567.81809/07/2322:45:202258.13871.31309/07/2323:55:202273.62771.89409/07/2321:31:202237.6368.18509/07/2322:46:202558.37971.32509/08/2300:00:20227												
09/07/2321:21:202233.01664.13609/07/2322:35:202255.87271.18209/07/2323:49:202271.89971.85009/07/2321:22:202233.52364.05809/07/2322:36:202256.11571.19809/07/2323:50:202272.14471.85009/07/2321:23:202234.01764.10409/07/2322:37:202256.32371.21109/07/2323:51:202272.40071.86409/07/2321:24:202234.65164.40209/07/2322:38:202256.58471.22009/07/2323:51:202272.78671.86509/07/2321:25:202235.16864.92309/07/2322:39:202256.75971.23909/07/2323:55:202273.02571.87509/07/2321:27:202236.14366.22809/07/2322:41:202257.31671.26109/07/2323:55:202273.02571.88409/07/2321:28:202236.43866.83909/07/2322:44:202257.51271.28309/07/2323:55:202273.56771.89409/07/2321:28:202237.63068.18509/07/2322:44:202257.70771.29309/07/2323:55:202273.66771.90409/07/2321:31:202236.63767.37509/07/2322:44:202257.92871.30609/07/2323:55:202273.66771.90409/07/2321:32:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202												
09/07/2321:22:202233.52364.05809/07/2322:36:202256.11571.19809/07/2323:50:202272.14471.85609/07/2321:23:202234.01764.10409/07/2322:37:202256.32371.21109/07/2323:51:202272.40071.86409/07/2321:24:202234.65164.40209/07/2322:38:202256.58471.22209/07/2323:52:202272.58771.86509/07/2321:25:202235.16864.92309/07/2322:39:202256.57971.23009/07/2323:53:202272.78671.87309/07/2321:26:202236.14366.22809/07/2322:40:202256.97771.25009/07/2323:55:202273.02571.87509/07/2321:28:202236.43866.22809/07/2322:44:202257.51271.28309/07/2323:55:202273.42271.88409/07/2321:29:202236.43866.81909/07/2322:44:202257.70771.29309/07/2323:55:202273.66771.90409/07/2321:31:202237.18567.81809/07/2322:44:202257.92871.31309/07/2323:59:202273.96371.90109/07/2321:33:202238.35768.71809/07/2322:46:202258.13871.31309/08/2300:00:202274.5471.91209/07/2321:33:202238.35768.71809/07/2322:49:202258.64171.34309/08/2300:00:2022												
09/07/2321:23:202234.01764.10409/07/2322:37:202256.32371.21109/07/2323:51:202272.40071.86409/07/2321:24:202234.65164.40209/07/2322:38:202256.58471.22209/07/2323:52:202272.58771.86509/07/2321:25:202235.16864.92309/07/2322:30:202256.75971.23009/07/2323:55:202272.78671.87309/07/2321:26:202236.14366.22809/07/2322:40:202256.97771.25009/07/2323:55:202273.02571.87309/07/2321:28:202236.43866.83909/07/2322:41:202257.51271.28309/07/2323:55:202273.42271.88409/07/2321:30:202237.18567.37509/07/2322:44:202257.70771.29309/07/2323:55:202273.76071.90409/07/2321:30:202237.18567.81809/07/2322:44:202257.92871.36609/07/2323:55:202273.66371.90409/07/2321:31:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:34:202238.75568.91809/07/2322:44:202258.84271.35209/08/2300:00:202274.15471.91209/07/2321:35:202239.91569.21209/07/2322:44:202259.29371.36509/08/2300:00:202												
09/07/2321:24:202234.65164.40209/07/2322:38:20226.58471.22209/07/2323:52:202272.58771.86509/07/2321:25:202235.16864.92309/07/2322:39:20226.75971.23909/07/2323:53:202272.78671.87309/07/2321:27:202236.14366.22809/07/2322:40:202257.31671.26709/07/2323:54:202273.02571.88409/07/2321:28:202236.43866.83909/07/2322:42:202257.31671.26709/07/2323:55:202273.42271.88409/07/2321:29:202236.82767.37509/07/2322:43:202257.70771.29309/07/2323:55:202273.76071.90409/07/2321:31:202237.18567.81809/07/2322:44:202257.70771.32509/07/2323:55:202273.96371.90409/07/2321:31:202237.16368.18509/07/2322:45:202258.13871.31309/07/2323:55:202273.96371.90409/07/2321:32:202238.01968.48309/07/2322:45:202258.64171.34309/08/2300:00:202274.15471.91209/07/2321:33:202238.5568.91809/07/2322:45:202258.64171.36509/08/2300:00:202274.37671.91609/07/2321:35:202239.63768.91809/07/2322:45:202259.06271.36509/08/2300:00:202274												
09/07/2321:26:202235.58965.56909/07/2322:40:202256.97771.25009/07/2323:54:202273.02571.87509/07/2321:27:202236.14366.22809/07/2322:41:202257.31671.26709/07/2323:55:202273.20971.88409/07/2321:28:202236.43866.83909/07/2322:42:202257.51271.28309/07/2323:55:202273.42271.88409/07/2321:30:202237.18567.81809/07/2322:44:202257.92871.30609/07/2323:57:202273.76071.90409/07/2321:31:202237.63068.18509/07/2322:45:202258.13871.31309/07/2323:59:202273.96371.90409/07/2321:33:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:34:202238.5568.71809/07/2322:46:202258.84271.34309/08/2300:01:202274.51971.91609/07/2321:34:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:35:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:03:202274.74471.92209/07/2321:37:202239.83169.32309/07/2322:50:202259.79071.38209/08/2300:06:2022												
09/07/2321:27:202236.14366.22809/07/2322:41:202257.31671.26709/07/2323:55:202273.20971.88409/07/2321:28:202236.43866.83909/07/2322:42:202257.51271.28309/07/2323:55:202273.42271.88809/07/2321:29:202236.82767.37509/07/2322:43:202257.70771.29309/07/2323:55:202273.76071.90409/07/2321:30:202237.63068.18509/07/2322:44:202257.92871.30609/07/2323:59:202273.96371.90409/07/2321:32:202238.01968.48309/07/2322:45:202258.13871.31309/07/2323:59:202274.15471.91209/07/2321:33:202238.5768.71809/07/2322:46:202258.37971.32509/08/2300:01:202274.15471.91209/07/2321:33:202238.35768.71809/07/2322:46:202258.64171.35209/08/2300:01:202274.51971.91709/07/2321:35:202239.09169.08009/07/2322:49:20258.64171.35209/08/2300:03:202274.74471.92209/07/2321:35:202239.47569.21209/07/2322:49:20259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.83169.32309/07/2322:50:202259.51671.38209/08/2300:04:202274	09/07/23 21	1:25:20	2235.168	64.923	09/07/23	22:39:20	2256.759	71.239	09/07/23	23:53:20	2272.786	71.873
09/07/2321:28:202236.43866.83909/07/2322:42:202257.51271.28309/07/2323:56:202273.42271.88809/07/2321:29:202236.82767.37509/07/2322:43:202257.70771.29309/07/2323:55:202273.56771.89409/07/2321:31:202237.18567.81809/07/2322:44:202257.92871.30609/07/2323:58:202273.76071.90409/07/2321:31:202237.63068.18509/07/2322:44:202258.13871.31309/07/2323:58:502273.96371.90109/07/2321:32:202238.01968.48309/07/2322:44:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:33:202238.55768.71809/07/2322:44:202258.64171.34309/08/2300:01:202274.37671.91609/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:01:202274.74471.92209/07/2321:35:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.84471.92509/07/2321:37:202239.83169.32309/07/2322:50:202259.79071.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:53:202259.97771.40109/08/2300:05:202												
09/07/2321:29:202236.82767.37509/07/2322:43:202257.70771.29309/07/2323:57:202273.56771.89409/07/2321:30:202237.18567.81809/07/2322:44:202257.92871.30609/07/2323:58:202273.76071.90409/07/2321:31:202237.63068.18509/07/2322:45:202258.13871.31309/07/2323:59:202273.96371.90109/07/2321:33:202238.01968.48309/07/2322:46:202258.637971.32509/08/2300:00:202274.15471.91209/07/2321:33:202238.75568.71809/07/2322:47:202258.64171.34309/08/2300:01:202274.37671.91609/07/2321:34:202238.75568.91809/07/2322:49:202259.06271.36509/08/2300:01:202274.51971.91709/07/2321:35:202239.09169.08009/07/2322:50:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:36:202240.26469.42709/07/2322:51:202259.79071.38209/08/2300:05:202275.01171.93109/07/2321:39:202240.26469.42709/07/2322:52:202259.79071.39709/08/2300:06:20												
09/07/2321:30:202237.18567.81809/07/2322:44:202257.92871.30609/07/2323:58:202273.76071.90409/07/2321:31:202237.63068.18509/07/2322:45:202258.13871.31309/07/2323:59:202273.96371.90109/07/2321:32:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:33:202238.35768.71809/07/2322:46:202258.64171.34309/08/2300:01:202274.51971.91609/07/2321:34:202238.5568.91809/07/2322:46:202258.84271.35209/08/2300:00:2:02274.51971.91709/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:50:202259.79071.38209/08/2300:05:202275.01171.93309/07/2321:39:202240.26469.42709/07/2322:53:202259.79071.30109/08/2300:06:202275.15071.93309/07/2321:39:202240.26469.42709/07/2322:53:202259.97771.40109/08/2300:06:202												
09/07/2321:31:202237.63068.18509/07/2322:45:202258.13871.31309/07/2323:59:202273.96371.90109/07/2321:32:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:33:202238.35768.71809/07/2322:46:202258.64171.34309/08/2300:01:202274.15471.91609/07/2321:34:202238.75568.91809/07/2322:48:202258.64171.35209/08/2300:01:202274.51971.91709/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.93109/07/2321:37:202239.83169.32309/07/2322:51:202259.51671.38209/08/2300:05:202275.01171.93109/07/2321:39:202240.26469.42709/07/2322:53:202259.97771.40109/08/2300:06:202275.15071.93309/07/2321:39:202240.55969.51609/07/2322:53:202259.97771.40109/08/2300:07:202275.15071.93309/07/2321:39:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202												
09/07/2321:32:202238.01968.48309/07/2322:46:202258.37971.32509/08/2300:00:202274.15471.91209/07/2321:33:202238.35768.71809/07/2322:47:202258.64171.34309/08/2300:01:202274.37671.91609/07/2321:35:202238.75568.91809/07/2322:48:202258.64171.35209/08/2300:02:202274.37671.91709/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:51:202259.51671.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:53:202259.97771.40109/08/2300:06:202275.15071.93309/07/2321:39:202240.25969.51609/07/2322:59.97771.40109/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:07:202275.55771.943												
09/07/2321:33:202238.35768.71809/07/2322:47:202258.64171.34309/08/2300:01:202274.37671.91609/07/2321:34:202238.75568.91809/07/2322:48:202258.84271.35209/08/2300:02:202274.51971.91709/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:51:202259.79071.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:53:202259.79071.39709/08/2300:06:202275.08571.93309/07/2321:39:202240.65969.51609/07/2322:53:202259.97771.40109/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202275.25771.943												
09/07/2321:34:202238.75568.91809/07/2322:48:202258.84271.35209/08/2300:02:202274.51971.91709/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:51:202259.51671.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:52:202259.79071.39709/08/2300:06:202275.08571.93309/07/2321:39:202240.65969.51609/07/2322:53:202259.97771.41009/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202275.25771.943												
09/07/2321:35:202239.09169.08009/07/2322:49:202259.06271.36509/08/2300:03:202274.74471.92209/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:51:202259.51671.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:52:202259.79071.39709/08/2300:06:202275.08571.93309/07/2321:39:202240.25569.51609/07/2322:53:202259.97771.40109/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202275.25771.943												
09/07/2321:36:202239.47569.21209/07/2322:50:202259.29371.37809/08/2300:04:202274.88471.92509/07/2321:37:202239.83169.32309/07/2322:51:202259.51671.38209/08/2300:05:202275.01171.93109/07/2321:38:202240.26469.42709/07/2322:52:202259.79071.39709/08/2300:06:202275.08571.93309/07/2321:39:202240.65969.51609/07/2322:53:202259.97771.40109/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202275.25771.943												
09/07/2321:38:202240.26469.42709/07/2322:52:202259.79071.39709/08/2300:06:202275.08571.93309/07/2321:39:202240.65969.51609/07/2322:53:202259.97771.40109/08/2300:07:202275.15071.93309/07/2321:40:202241.07469.59609/07/2322:54:202260.23071.41909/08/2300:08:202275.25771.943			2239.475		09/07/23	22:50:20		71.378	09/08/23	00:04:20		71.925
09/07/23 21:39:20 2240.659 69.516 09/07/23 22:53:20 2259.977 71.401 09/08/23 00:07:20 2275.150 71.933 09/07/23 21:40:20 2241.074 69.596 09/07/23 22:54:20 2260.230 71.419 09/08/23 00:08:20 2275.257 71.943												
09/07/23 21:40:20 2241.074 69.596 09/07/23 22:54:20 2260.230 71.419 09/08/23 00:08:20 2275.257 71.943												
09/07/25 21.41.20 2241.510 09.071 09/07/25 22:55:20 2200.474 71.455 09/08/25 00:09:20 22/5.417 71.951												
	09/07/23 21	1.41.20	2241.J10	02.071	09/01/23	22.JJ:20	2200.4/4	11.433	09/00/23	00.09:20	22/3.41/	11.901

Date	Time	Pressure psig	°F	Date	Time	Pressure psig	°F	Date	Time	Pressure psig	Temp °F
09/08/23	00:10:20	2275.583	71.952	09/08/2	3 01:31:20	2288.773	72.142	09/08/23	3 02:52:20	2299.730	72.195
09/08/23		2275.736	71.953		3 01:32:20	2288.967	72.142		3 02:53:20	2299.835	72.194
09/08/23		2275.854	71.963		3 01:33:20	2289.080	72.140		3 02:54:20	2300.001	72.196
09/08/23 (2276.089 2276.240	71.962 71.963		3 01:34:20 3 01:35:20	2289.277 2289.441	72.141 72.144		3 02:55:20 3 02:56:20	2300.156 2300.259	72.192 72.195
09/08/23		2276.384	71.974		3 01:36:20	2289.612	72.151		3 02:57:20	2300.433	72.198
09/08/23		2276.536	71.974		3 01:37:20	2289.711	72.153		3 02:58:20	2300.492	72.196
09/08/23		2276.764	71.980		3 01:38:20	2289.810	72.152		3 02:59:20	2300.611	72.194
09/08/23 0		2276.913 2277.029	71.987 71.986		3 01:39:20 3 01:40:20	2289.920 2290.024	72.150 72.154		3 03:00:20 3 03:01:20	2300.695 2300.796	72.191 72.195
09/08/23		2277.240	71.993		3 01:41:20	2290.233	72.154		3 03:02:20	2300.941	72.198
09/08/23		2277.478	72.002		3 01:42:20	2290.381	72.160		3 03:03:20	2301.097	72.194
09/08/23		2277.716	72.002		3 01:43:20	2290.503	72.160		3 03:04:20	2301.188	72.193
09/08/23 (2277.877 2278.065	72.005 72.003		3 01:44:20 3 01:45:20	2290.676 2290.794	72.159 72.159		3 03:05:20 3 03:06:20	2301.322 2301.442	72.194 72.196
09/08/23		2278.251	72.011		3 01:46:20	2290.948	72.163		3 03:07:20	2301.598	72.197
09/08/23		2278.409	72.015		3 01:47:20	2291.093	72.162		3 03:08:20	2301.687	72.195
09/08/23		2278.591	72.015		3 01:48:20	2291.230	72.162		3 03:09:20	2301.809	72.201
09/08/23 (2278.751 2278.875	72.021 72.029		3 01:49:20 3 01:50:20	2291.340 2291.520	72.162 72.167		3 03:10:20 3 03:11:20	2301.926 2302.041	72.200 72.191
09/08/23		2279.045	72.024		3 01:51:20	2291.667	72.167		3 03:12:20	2302.173	72.201
09/08/23		2279.195	72.032		3 01:52:20	2291.819	72.170		3 03:13:20	2302.287	72.201
09/08/23		2279.385	72.037		3 01:53:20	2291.966	72.166		3 03:14:20	2302.377	72.202
09/08/23 0		2279.564 2279.759	72.043 72.038		3 01:54:20 3 01:55:20	2292.153 2292.285	72.172 72.174		3 03:15:20 3 03:16:20	2302.475 2302.650	72.199 72.197
09/08/23		2279.925	72.036		3 01:56:20	2292.441	72.174		3 03:17:20	2302.716	72.198
09/08/23		2280.110	72.054		3 01:57:20	2292.547	72.173		3 03:18:20	2302.827	72.195
09/08/23		2280.218	72.052		3 01:58:20	2292.662	72.174		3 03:19:20	2302.980	72.200
09/08/23 0		2280.364 2280.563	72.051 72.053	, ,	3 01:59:20 3 02:00:20	2292.798 2292.975	72.175 72.179		3 03:20:20 3 03:21:20	2303.102 2303.212	72.197 72.200
09/08/23		2280.731	72.059		3 02:01:20	2293.120	72.180		3 03:22:20	2303.323	72.195
09/08/23		2280.903	72.066		3 02:02:20	2293.259	72.175		3 03:23:20	2303.449	72.199
09/08/23		2281.080	72.071		3 02:03:20	2293.404	72.181		3 03:24:20	2303.540	72.200
09/08/23 0		2281.190 2281.387	72.065 72.074		3 02:04:20 3 02:05:20	2293.557 2293.713	72.176 72.179		3 03:25:20 3 03:26:20	2303.646 2303.742	72.202 72.200
09/08/23		2281.535	72.079		3 02:06:20	2293.878	72.185		3 03:27:20	2303.838	72.202
09/08/23		2281.750	72.082		3 02:07:20	2293.968	72.181		3 03:28:20	2303.979	72.203
09/08/23		2281.862	72.076		3 02:08:20	2294.068	72.185		3 03:29:20	2304.098	72.200
09/08/23 0		2282.104 2282.250	72.082 72.084		3 02:09:20 3 02:10:20	2294.153 2294.272	72.177 72.178		3 03:30:20 3 03:31:20	2304.184 2304.296	72.194 72.205
09/08/23		2282.444	72.089		3 02:11:20	2294.398	72.180		3 03:32:20	2304.385	72.202
09/08/23		2282.574	72.090		3 02:12:20	2294.541	72.180		3 03:33:20	2304.469	72.206
09/08/23 0		2282.712 2282.880	72.094 72.097		3 02:13:20 3 02:14:20	2294.624 2294.739	72.181 72.181		3 03:34:20 3 03:35:20	2304.537 2304.620	72.202 72.198
09/08/23		2282.998	72.097		3 02:15:20	2294.855	72.173		3 03:36:20	2304.020	72.198
09/08/23		2283.171	72.095		3 02:16:20	2295.001	72.175		3 03:37:20	2304.845	72.203
09/08/23		2283.344	72.098 72.094		3 02:17:20	2295.155 2295.293	72.181		3 03:38:20 3 03:39:20	2304.955	72.204
09/08/23 0		2283.493 2283.621	72.094		3 02:18:20 3 02:19:20	2295.293	72.176 72.175		3 03:39:20 3 03:40:20	2305.057 2305.202	72.207 72.202
09/08/23		2283.749	72.096		3 02:20:20	2295.571	72.173		3 03:41:20	2305.286	72.203
09/08/23		2283.872	72.097		3 02:21:20	2295.705	72.179		3 03:42:20	2305.466	72.209
09/08/23 (09/08/23 (2284.095	72.100		3 02:22:20 3 02:23:20	2295.825 2295.933	72.181		3 03:43:20 3 03:44:20	2305.596	72.210
09/08/23		2284.231 2284.421	72.098		3 02:23:20	2295.935	72.176 72.180		3 03:45:20	2305.668 2305.769	72.203 72.209
09/08/23		2284.523	72.100		3 02:25:20	2296.194			3 03:46:20	2305.879	72.208
09/08/23		2284.683	72.102		3 02:26:20	2296.302			3 03:47:20	2305.968	72.210
09/08/23 0		2284.879 2285.059	72.101		3 02:27:20 3 02:28:20	2296.436 2296.606			3 03:48:20 3 03:49:20	2306.103 2306.220	72.212 72.213
09/08/23		2285.203	72.104		3 02:29:20	2296.750			3 03:50:20	2306.301	72.213
09/08/23	01:09:20	2285.475	72.107	09/08/2	3 02:30:20	2296.890	72.179	09/08/23	3 03:51:20	2306.383	72.215
09/08/23		2285.579	72.109		3 02:31:20	2297.020	72.182		3 03:52:20	2306.465	72.214
09/08/23 (2285.721 2285.862	72.112 72.110		3 02:32:20 3 02:33:20	2297.105			3 03:53:20 3 03:54:20	2306.602 2306.717	72.210 72.214
09/08/23		2286.085	72.110		3 02:33:20	2297.256 2297.386			3 03:54:20 3 03:55:20	2306.846	72.214
09/08/23		2286.175	72.110		3 02:35:20	2297.535			3 03:56:20	2306.930	72.214
09/08/23		2286.337			3 02:36:20	2297.701			3 03:57:20	2307.050	72.220
09/08/23 0		2286.575 2286.743	72.115 72.116		3 02:37:20 3 02:38:20	2297.821 2297.928			3 03:58:20 3 03:59:20	2307.141 2307.221	72.222 72.220
09/08/23		2286.901	72.118		3 02:39:20	2298.092			3 04:00:20	2307.329	72.220
09/08/23	01:19:20	2287.031	72.125	09/08/2	3 02:40:20	2298.179	72.183	09/08/23	3 04:01:20	2307.443	72.222
09/08/23		2287.171	72.118		3 02:41:20	2298.281	72.184		3 04:02:20	2307.526	72.222
09/08/23 0		2287.345 2287.558	72.122 72.130		3 02:42:20 3 02:43:20	2298.414 2298.531			3 04:03:20 3 04:04:20	2307.640 2307.765	72.221 72.226
09/08/23		2287.595	72.130		3 02:44:20	2298.665			3 04:05:20	2307.852	72.220
09/08/23	01:24:20	2287.726	72.131	09/08/2	3 02:45:20	2298.792	72.189	09/08/23	3 04:06:20	2307.952	72.224
09/08/23		2287.876	72.130		3 02:46:20	2298.931			3 04:07:20	2308.039	72.225
09/08/23 0		2288.054 2288.198	72.130 72.134		3 02:47:20 3 02:48:20	2299.104 2299.211			3 04:08:20 3 04:09:20	2308.147 2308.236	72.221 72.224
09/08/23		2288.371	72.134		3 02:49:20	2299.326			3 04:10:20	2308.346	72.224
09/08/23		2288.545			3 02:50:20	2299.459	72.187		3 04:11:20	2308.462	72.221
09/08/23	u⊥:3U:2U	2288.654	/2.144	09/08/2	3 02:51:20	2299.602	12.192	109/08/23	3 04:12:20	2308.602	72.227

Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F
09/08/23	04:13:20	2308.688	72.229	09/08/23	05:34:20	2316.896	72.239	09/08/23	06:55:20	2323.999	72.237
09/08/23		2308.808	72.225		05:35:20	2316.964	72.233		06:56:20	2324.082	72.236
09/08/23	04:15:20	2308.899	72.228	09/08/23	05:36:20	2317.060	72.244	09/08/23	06:57:20	2324.164	72.237
	04:16:20	2309.062	72.228		05:37:20	2317.121	72.242		06:58:20	2324.248	72.235
09/08/23		2309.153	72.227		05:38:20	2317.214	72.242		06:59:20	2324.390	72.239
09/08/23 09/08/23		2309.333 2309.421	72.226 72.227		05:39:20 05:40:20	2317.306 2317.401	72.238 72.241		07:00:20 07:01:20	2324.437 2324.518	72.231 72.234
09/08/23		2309.572	72.231		05:40:20	2317.500	72.243		07:02:20	2324.510	72.234
09/08/23		2309.695	72.227		05:42:20	2317.605	72.239		07:03:20	2324.675	72.232
	04:22:20	2309.791	72.232		05:43:20	2317.696	72.240		07:04:20	2324.754	72.235
09/08/23		2309.905	72.229		05:44:20 05:45:20	2317.781	72.242 72.239		07:05:20	2324.818	72.232
09/08/23 09/08/23		2310.023 2310.102	72.229 72.227		05:45:20	2317.860 2317.963	72.239		07:06:20 07:07:20	2324.907 2324.985	72.233 72.232
09/08/23		2310.178	72.228		05:47:20	2318.050	72.241		07:08:20	2325.063	72.235
09/08/23	04:27:20	2310.285	72.226	09/08/23	05:48:20	2318.130	72.241		07:09:20	2325.136	72.236
09/08/23		2310.391	72.230		05:49:20	2318.210	72.246		07:10:20	2325.198	72.235
09/08/23 09/08/23	04:29:20	2310.503	72.227 72.227		05:50:20 05:51:20	2318.254 2318.354	72.241 72.247		07:11:20 07:12:20	2325.278 2325.372	72.233 72.236
09/08/23		2310.605 2310.791	72.232		05:51:20	2318.449	72.247		07:12:20	2325.447	72.230
09/08/23		2310.860	72.229		05:53:20	2318.545	72.242		07:14:20	2325.538	72.237
	04:33:20	2310.953	72.230		05:54:20	2318.657	72.251		07:15:20	2325.603	72.234
	04:34:20	2311.043	72.231		05:55:20	2318.714	72.241		07:16:20	2325.679	72.230
09/08/23 09/08/23		2311.126	72.229 72.226	, ,	05:56:20	2318.814	72.244		07:17:20	2325.753	72.229
09/08/23		2311.222 2311.344	72.226		05:57:20 05:58:20	2318.896 2319.013	72.244 72.248		07:18:20 07:19:20	2325.849 2325.919	72.227 72.228
09/08/23		2311.437	72.235		05:59:20	2319.085	72.244		07:20:20	2325.998	72.231
09/08/23		2311.507	72.228		06:00:20	2319.206	72.246	09/08/23	07:21:20	2326.105	72.234
	04:40:20	2311.608	72.233		06:01:20	2319.286	72.244		07:22:20	2326.194	72.232
09/08/23		2311.752	72.231		06:02:20	2319.374	72.248		07:23:20	2326.282	72.233
09/08/23	04:42:20	2311.837 2311.937	72.232 72.231		06:03:20 06:04:20	2319.467 2319.534	72.248 72.244		07:24:20 07:25:20	2326.353 2326.430	72.228 72.227
09/08/23		2312.016	72.225		06:05:20	2319.614	72.244		07:25:20	2326.505	72.228
09/08/23		2312.156	72.234		06:06:20	2319.735	72.249		07:27:20	2326.589	72.227
09/08/23		2312.218	72.224		06:07:20	2319.798	72.244		07:28:20	2326.681	72.232
	04:47:20	2312.328	72.231		06:08:20	2319.871	72.241		07:29:20	2326.741	72.226
09/08/23 09/08/23		2312.418 2312.561	72.225 72.225		06:09:20 06:10:20	2319.961 2320.076	72.239 72.244		07:30:20 07:31:20	2326.837 2326.920	72.230 72.232
09/08/23		2312.501	72.223		06:11:20	2320.140	72.237		07:32:20	2326.920	72.232
09/08/23		2312.765	72.234		06:12:20	2320.244	72.243		07:33:20	2327.080	72.232
09/08/23		2312.838	72.227		06:13:20	2320.353	72.243		07:34:20	2327.145	72.229
09/08/23		2312.934	72.227		06:14:20	2320.427	72.242		07:35:20	2327.216	72.221
09/08/23	04:54:20	2313.038 2313.154	72.228 72.228		06:15:20 06:16:20	2320.532 2320.661	72.244 72.248		07:36:20 07:37:20	2327.325 2327.404	72.229 72.229
09/08/23		2313.244	72.220		06:17:20	2320.735	72.240		07:38:20	2327.513	72.233
09/08/23		2313.329	72.225		06:18:20	2320.841	72.245		07:39:20	2327.569	72.226
09/08/23		2313.448	72.226		06:19:20	2320.912	72.240		07:40:20	2327.656	72.226
09/08/23		2313.556	72.226		06:20:20	2320.996	72.242		07:41:20	2327.729	72.226
09/08/23	05:00:20	2313.677 2313.788	72.226 72.233		06:21:20 06:22:20	2321.085 2321.168	72.239 72.238		07:42:20 07:43:20	2327.782 2327.875	72.221 72.227
09/08/23		2313.869	72.230		06:23:20	2321.257	72.238		07:44:20	2327.967	72.228
	05:03:20	2313.983	72.236		06:24:20	2321.333	72.241		07:45:20	2328.042	72.223
	05:04:20	2314.080	72.231		06:25:20	2321.425	72.244		07:46:20	2328.131	72.222
	05:05:20 05:06:20	2314.164 2314.299	72.228 72.232		06:26:20 06:27:20	2321.504		09/08/23		2249.979	72.215 72.204
	05:07:20	2314.299	72.232		06:28:20	2321.607 2321.688		09/08/23		2135.133 2066.328	72.204
	05:08:20	2314.476	72.234		06:29:20	2321.776		09/08/23		2021.613	72.183
	05:09:20	2314.543	72.232		06:30:20	2321.917		09/08/23		1991.563	72.180
	05:10:20	2314.621	72.230		06:31:20	2321.963		09/08/23		1970.671	72.176
	05:11:20 05:12:20	2314.708 2314.830	72.234 72.229		06:32:20 06:33:20	2322.055 2322.139		09/08/23 09/08/23		1955.802 1945.091	72.181 72.175
	05:12:20	2314.917	72.229		06:34:20	2322.261		09/08/23		1938.178	72.175
	05:14:20	2315.038	72.235		06:35:20	2322.341		09/08/23		1933.726	72.177
	05:15:20	2315.120	72.232		06:36:20	2322.424		09/08/23		1930.472	72.174
	05:16:20	2315.234	72.230		06:37:20	2322.519		09/08/23		1928.005	72.178
	05:17:20 05:18:20	2315.324 2315.405	72.232 72.232		06:38:20 06:39:20	2322.613 2322.706		09/08/23 09/08/23		1925.982 1924.245	72.179 72.184
	05:19:20	2315.405	72.232		06:40:20	2322.700		09/08/23		1922.915	72.184
	05:20:20	2315.599	72.237		06:41:20	2322.879		09/08/23		1921.728	72.192
	05:21:20	2315.658	72.230		06:42:20	2322.991		09/08/23		1920.562	72.193
	05:22:20	2315.761	72.239		06:43:20	2323.079		09/08/23		1919.599	72.196
	05:23:20 05:24:20	2315.834 2315.920	72.238 72.239		06:44:20 06:45:20	2323.169 2323.233		09/08/23 09/08/23		1918.834 1918.048	72.197 72.203
	05:24:20	2315.920	72.239		06:45:20	2323.233		09/08/23		1918.048	72.203
	05:26:20	2316.087	72.236		06:47:20	2323.377		09/08/23		1916.685	72.202
	05:27:20	2316.232	72.238		06:48:20	2323.433		09/08/23		1916.130	72.211
	05:28:20	2316.313	72.232		06:49:20	2323.518		09/08/23		1915.510	72.215
	05:29:20 05:30:20	2316.440 2316.522	72.235 72.234		06:50:20 06:51:20	2323.603 2323.670		09/08/23 09/08/23		1915.077 1914.613	72.214 72.222
	05:31:20	2316.633	72.234		06:52:20	2323.744		09/08/23		1914.013	72.222
09/08/23	05:32:20	2316.709	72.238	09/08/23	06:53:20	2323.817	72.235	09/08/23	08:14:20	1913.768	72.221
09/08/23	05:33:20	2316.818	72.238	09/08/23	06:54:20	2323.909	72.235	09/08/23	08:15:20	1913.375	72.225

Date Tir	ne Pressure psig	e Temp °F	Date Time	Pressure psig	°F	Date	Time	Pressure psig	Temp °F
09/08/23 08:16	20 1913.03	72.229	09/08/23 09:37	:20 1902.004	72.507	09/08/23	10:58:20	1897.911	72.652
09/08/23 08:17			09/08/23 09:38		72.510		10:59:20	1897.873	72.655
09/08/23 08:18			09/08/23 09:39		72.517		11:00:20	1897.823	72.655
09/08/23 08:19 09/08/23 08:20			09/08/23 09:40 09/08/23 09:41		72.519 72.521		11:01:20 11:02:20	1897.796 1897.768	72.654 72.654
09/08/23 08:21			09/08/23 09:41		72.521		11:02:20	1897.717	72.653
09/08/23 08:22			09/08/23 09:43		72.525		11:04:20	1897.684	72.656
09/08/23 08:23			09/08/23 09:44		72.526		11:05:20	1897.647	72.658
09/08/23 08:24			09/08/23 09:45		72.528		11:06:20	1897.604	72.661
09/08/23 08:25			09/08/23 09:46 09/08/23 09:47		72.530 72.529		11:07:20 11:08:20	1897.593 1897.542	72.668 72.661
09/08/23 08:27			09/08/23 09:48		72.533		11:09:20	1897.515	72.666
09/08/23 08:28			09/08/23 09:49		72.529		11:10:20	1897.493	72.669
09/08/23 08:29			09/08/23 09:50		72.534		11:11:20	1897.435	72.671
09/08/23 08:30 09/08/23 08:31			09/08/23 09:51 09/08/23 09:52		72.536 72.534		11:12:20 11:13:20	1897.393 1897.336	72.667 72.660
09/08/23 08:32			09/08/23 09:53		72.542		11:14:20	1897.314	72.666
09/08/23 08:33			09/08/23 09:54		72.543		11:15:20	1897.280	72.673
09/08/23 08:34			09/08/23 09:55		72.545		11:16:20	1897.255	72.673
09/08/23 08:35 09/08/23 08:36			09/08/23 09:56 09/08/23 09:57		72.546 72.544		11:17:20 11:18:20	1897.220 1897.179	72.673 72.673
09/08/23 08:37			09/08/23 09:58		72.544		11:19:20	1897.150	72.673
09/08/23 08:38			09/08/23 09:59		72.556		11:20:20	1897.136	72.683
09/08/23 08:39			09/08/23 10:00		72.558		11:21:20	1897.112	72.683
09/08/23 08:40			09/08/23 10:01		72.561		11:22:20	1897.057	72.682
09/08/23 08:41 09/08/23 08:42			09/08/23 10:02 09/08/23 10:03		72.556 72.563		11:23:20 11:24:20	1897.021 1896.998	72.679 72.683
09/08/23 08:43			09/08/23 10:03		72.568		11:25:20	1896.948	72.683
09/08/23 08:44			09/08/23 10:05		72.563		11:26:20	1896.922	72.688
09/08/23 08:45			09/08/23 10:06		72.569		11:27:20	1896.886	72.684
09/08/23 08:46			09/08/23 10:07		72.571		11:28:20	1896.840	72.682 72.689
09/08/23 08:47 09/08/23 08:48			09/08/23 10:08 09/08/23 10:09		72.569 72.574		11:29:20 11:30:20	1896.820 1896.792	72.689
09/08/23 08:49			09/08/23 10:10		72.571		11:31:20	1896.766	72.691
09/08/23 08:50			09/08/23 10:11		72.574		11:32:20	1896.744	72.695
09/08/23 08:51			09/08/23 10:12		72.578		11:33:20	1896.677	72.688
09/08/23 08:52 09/08/23 08:53			09/08/23 10:13 09/08/23 10:14		72.582 72.581		11:34:20 11:35:20	1896.668 1896.635	72.696 72.692
09/08/23 08:54			09/08/23 10:14		72.577		11:35:20	1896.602	72.692
09/08/23 08:55			09/08/23 10:16		72.587		11:37:20	1896.574	72.698
09/08/23 08:56			09/08/23 10:17		72.585		11:38:20	1896.557	72.704
09/08/23 08:57			09/08/23 10:18		72.587		11:39:20	1896.488	72.690
09/08/23 08:58 09/08/23 08:59			09/08/23 10:19 09/08/23 10:20		72.596 72.593		11:40:20 11:41:20	1896.486 1896.454	72.701 72.702
09/08/23 09:00			09/08/23 10:20		72.593		11:42:20	1896.439	72.702
09/08/23 09:01			09/08/23 10:22		72.598		11:43:20	1896.404	72.702
09/08/23 09:02			09/08/23 10:23		72.598		11:44:20	1896.375	72.704
09/08/23 09:03 09/08/23 09:04			09/08/23 10:24 09/08/23 10:25		72.598 72.604		11:45:20 11:46:20	1896.328 1896.307	72.708 72.710
09/08/23 09:05			09/08/23 10:25		72.604		11:47:20	1896.287	72.710
09/08/23 09:06	20 1904.50	72.428	09/08/23 10:27		72.603		11:48:20	1896.247	72.708
09/08/23 09:07			09/08/23 10:28		72.613		11:49:20	1896.207	72.714
09/08/23 09:08			09/08/23 10:29 09/08/23 10:30			09/08/23	11:50:20	1896.192 1896.151	72.713 72.711
09/08/23 09:10			09/08/23 10:30			09/08/23		1896.129	72.711
09/08/23 09:11			09/08/23 10:32			09/08/23		1896.075	72.712
09/08/23 09:12						09/08/23		1896.062	72.719
09/08/23 09:13 09/08/23 09:14			09/08/23 10:34 09/08/23 10:35			09/08/23 09/08/23		1896.023 1896.012	72.716 72.718
09/08/23 09:14						09/08/23		1895.968	72.718
09/08/23 09:16						09/08/23		1895.954	72.721
09/08/23 09:17						09/08/23		1895.935	72.725
09/08/23 09:18						09/08/23		1895.905	72.723
09/08/23 09:19 09/08/23 09:20						09/08/23 09/08/23		1895.870 1895.854	72.725 72.729
09/08/23 09:21						09/08/23		1895.809	72.728
09/08/23 09:22		72.472	09/08/23 10:43	:20 1898.498	72.628	09/08/23	12:04:20	1895.794	72.731
09/08/23 09:23						09/08/23		1895.762	72.734
09/08/23 09:24 09/08/23 09:25			09/08/23 10:45 09/08/23 10:46			09/08/23 09/08/23		1895.728 1895.681	72.730 72.732
09/08/23 09:25							12:07:20	1895.681	72.732
09/08/23 09:27						09/08/23		1895.660	72.735
09/08/23 09:28						09/08/23		1895.624	72.736
09/08/23 09:29			09/08/23 10:50			09/08/23		1895.592	72.736
09/08/23 09:30 09/08/23 09:31						09/08/23 09/08/23		1895.569 1895.521	72.742 72.737
09/08/23 09:32						09/08/23		1895.508	72.741
09/08/23 09:33	20 1902.27	72.502	09/08/23 10:54	:20 1898.074	72.650	09/08/23	12:15:20	1895.498	72.745
09/08/23 09:34						09/08/23		1895.469	72.745
09/08/23 09:35 09/08/23 09:36			09/08/23 10:56 09/08/23 10:57			09/08/23 09/08/23		1895.462 1895.409	72.749 72.745
	1902.00	,2.000	1.57, 557, 25, 20, 57		.2.000	100,00,20		2000.100	.2.113

Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F
09/08/23	12:19:20	1895.385	72.748	09/08/23	13:40:20	1893.564	72.883	09/08/23	15:01:20	1892.140	73.003
09/08/23		1895.354	72.751		13:41:20	1893.558	72.889		15:02:20	1892.133	73.008
09/08/23		1895.333	72.748		13:42:20	1893.541	72.894		15:03:20	1892.099	73.008
09/08/23		1895.324	72.751		13:43:20 13:44:20	1893.491	72.890		15:04:20	1892.089	73.012
09/08/23 09/08/23		1895.260 1895.260	72.745 72.753		13:44:20	1893.475 1893.452	72.892 72.898		15:05:20 15:06:20	1892.064 1892.047	73.012 73.012
09/08/23		1895.224	72.752		13:46:20	1893.442	72.901		15:07:20	1892.048	73.012
09/08/23		1895.211	72.751	09/08/23	13:47:20	1893.425	72.906	09/08/23	15:08:20	1892.029	73.018
09/08/23		1895.184	72.759		13:48:20	1893.407	72.903		15:09:20	1891.984	73.013
09/08/23 09/08/23		1895.154 1895.137	72.755 72.757		13:49:20 13:50:20	1893.394 1893.376	72.903 72.906		15:10:20 15:11:20	1891.984 1891.970	73.016 73.018
09/08/23		1895.100	72.760		13:51:20	1893.347	72.905		15:12:20	1891.950	73.014
09/08/23		1895.072	72.759	09/08/23	13:52:20	1893.342	72.914	09/08/23	15:13:20	1891.944	73.017
09/08/23		1895.050	72.756		13:53:20	1893.300	72.910		15:14:20	1891.930	73.022
09/08/23 09/08/23		1895.026 1894.997	72.760 72.760		13:54:20 13:55:20	1893.303 1893.269	72.922 72.920		15:15:20 15:16:20	1891.919 1891.888	73.024 73.023
09/08/23		1894.995	72.768		13:56:20	1893.250	72.920		15:17:20	1891.890	73.029
09/08/23		1894.958	72.762	09/08/23	13:57:20	1893.237	72.922		15:18:20	1891.853	73.022
09/08/23		1894.938	72.766		13:58:20	1893.223	72.928		15:19:20	1891.848	73.028
09/08/23 09/08/23		1894.904 1894.888	72.764 72.768		13:59:20 14:00:20	1893.198 1893.176	72.930 72.929		15:20:20 15:21:20	1891.831 1891.820	73.030 73.032
09/08/23		1894.840	72.766		14:00:20	1893.165	72.929		15:22:20	1891.820	73.032
09/08/23		1894.835	72.769		14:02:20	1893.143	72.936		15:23:20	1891.777	73.032
09/08/23		1894.834	72.780		14:03:20	1893.127	72.933		15:24:20	1891.773	73.042
09/08/23		1894.785	72.769		14:04:20	1893.108 1893.098	72.937 72.943		15:25:20	1891.751	73.040 73.042
09/08/23 09/08/23		1894.761 1894.740	72.773 72.774		14:05:20 14:06:20	1893.098	72.943		15:26:20 15:27:20	1891.745 1891.718	73.042
09/08/23		1894.726	72.775		14:07:20	1893.059	72.937		15:28:20	1891.702	73.050
09/08/23		1894.691	72.778		14:08:20	1893.049	72.941		15:29:20	1891.717	73.052
09/08/23		1894.678	72.777		14:09:20	1893.035	72.946		15:30:20	1891.674	73.052
09/08/23 09/08/23		1894.671 1894.633	72.783 72.777		14:10:20 14:11:20	1893.003 1892.983	72.948 72.943		15:31:20 15:32:20	1891.677 1891.651	73.048 73.053
09/08/23		1894.608	72.782		14:12:20	1892.957	72.943		15:33:20	1891.641	73.052
09/08/23	12:52:20	1894.583	72.780	09/08/23	14:13:20	1892.947	72.948	09/08/23	15:34:20	1891.642	73.054
09/08/23		1894.570	72.787		14:14:20	1892.915	72.943		15:35:20	1891.613	73.056
09/08/23 09/08/23		1894.527 1894.520	72.785 72.789		14:15:20 14:16:20	1892.911 1892.870	72.949 72.940		15:36:20 15:37:20	1891.612 1891.577	73.055 73.060
09/08/23		1894.491	72.787		14:17:20	1892.884	72.949		15:38:20	1891.552	73.059
09/08/23		1894.468	72.786		14:18:20	1892.863	72.951		15:39:20	1891.544	73.063
09/08/23		1894.446	72.788		14:19:20	1892.815	72.942		15:40:20	1891.538	73.073
09/08/23 09/08/23		1894.419 1894.394	72.789 72.789		14:20:20 14:21:20	1892.797 1892.809	72.943 72.951		15:41:20 15:42:20	1891.522 1891.495	73.073 73.074
09/08/23		1894.369	72.790		14:22:20	1892.799	72.951		15:43:20	1891.491	73.079
09/08/23	13:02:20	1894.350	72.789	09/08/23	14:23:20	1892.755	72.949	09/08/23	15:44:20	1891.483	73.081
09/08/23		1894.351	72.797		14:24:20	1892.773	72.953		15:45:20	1891.469	73.087
09/08/23 09/08/23		1894.311 1894.283	72.795 72.794		14:25:20 14:26:20	1892.736 1892.717	72.951 72.951		15:46:20 15:47:20	1891.443 1891.443	73.087 73.090
09/08/23		1894.262	72.790		14:27:20	1892.675	72.945		15:48:20	1891.415	73.093
09/08/23		1894.286	72.804		14:28:20	1892.690	72.954		15:49:20	1891.415	73.098
09/08/23 09/08/23		1894.203	72.795		14:29:20	1892.672	72.955		15:50:20 15:51:20	1891.406	73.103
09/08/23		1894.180 1894.190	72.795 72.803		14:30:20 14:31:20	1892.628 1892.632	72.947 72.957		15:51:20	1891.376 1891.363	73.102 73.105
09/08/23		1894.178			14:32:20	1892.599		09/08/23		1891.347	73.111
09/08/23		1894.148	72.804		14:33:20	1892.595		09/08/23		1891.344	73.117
09/08/23 09/08/23		1894.125 1894.088	72.805 72.803		14:34:20 14:35:20	1892.579 1892.571		09/08/23 09/08/23		1891.321 1891.313	73.119 73.119
09/08/23		1894.074	72.806		14:36:20	1892.544		09/08/23		1891.291	73.117
09/08/23		1894.045	72.804		14:37:20	1892.528		09/08/23		1891.267	73.115
09/08/23		1894.017	72.808		14:38:20	1892.513		09/08/23		1891.257	73.123
09/08/23 09/08/23		1894.020 1893.997	72.813 72.814		14:39:20 14:40:20	1892.514 1892.477		09/08/23 09/08/23		1891.240 1891.226	73.120 73.122
09/08/23		1893.969	72.814		14:40:20	1892.447		09/08/23		1891.220	73.122
09/08/23		1893.965	72.824		14:42:20	1892.446		09/08/23		1891.210	73.129
09/08/23		1893.928	72.824		14:43:20	1892.412		09/08/23		1891.195	73.136
09/08/23 09/08/23		1893.899 1893.898	72.829 72.834		14:44:20 14:45:20	1892.383 1892.402		09/08/23		1891.185 1891.173	73.131 73.133
09/08/23		1893.870	72.838		14:46:20	1892.393		09/08/23		1891.149	73.131
09/08/23		1893.844	72.835	09/08/23	14:47:20	1892.363		09/08/23		1891.127	73.133
09/08/23		1893.804	72.838		14:48:20	1892.355		09/08/23		1891.121	73.135
09/08/23 09/08/23		1893.813 1893.783	72.851 72.850		14:49:20 14:50:20	1892.327 1892.312		09/08/23 09/08/23		1891.108 1891.093	73.137 73.130
09/08/23		1893.760	72.850		14:50:20	1892.304		09/08/23		1891.093	73.130
09/08/23	13:31:20	1893.760	72.859	09/08/23	14:52:20	1892.273	72.995	09/08/23	16:13:20	1891.066	73.136
09/08/23		1893.725	72.862		14:53:20	1892.263	73.001	09/08/23		1891.055	73.133
09/08/23 09/08/23		1893.707 1893.677	72.863 72.863		14:54:20 14:55:20	1892.253 1892.223		09/08/23 09/08/23		1891.043 1891.037	73.137 73.134
09/08/23		1893.668	72.871		14:56:20	1892.214		09/08/23		1891.010	73.130
09/08/23	13:36:20	1893.656	72.875	09/08/23	14:57:20	1892.190	73.001	09/08/23	16:18:20	1890.999	73.128
09/08/23 09/08/23		1893.639 1893.609	72.876 72.879		14:58:20 14:59:20	1892.177 1892.157		09/08/23 09/08/23		1891.005 1890.976	73.143 73.140
09/08/23		1893.509			14:59:20	1892.157		09/08/23		1890.976	73.140
				•				•			

09/08/23 16:22:201890.93773.13509/08/23 17:43:201889.93473.21009/08/23 19:04:201889.01009/08/23 16:23:201890.93573.13609/08/23 17:44:201889.91173.20809/08/23 19:05:201889.99809/08/23 16:24:201890.90973.13509/08/23 17:45:201889.89073.20809/08/23 19:06:201888.99909/08/23 16:25:201890.90473.13909/08/23 17:45:201889.87073.20709/08/23 19:06:201888.97209/08/23 16:26:201890.89973.14209/08/23 17:47:201889.86573.20809/08/23 19:08:201888.96909/08/23 16:27:201890.88173.14309/08/23 17:47:201889.84673.21209/08/23 19:09:201888.95209/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21309/08/23 19:10:201888.96109/08/23 16:29:201890.84773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:20188.935	73.256 73.254 73.253 73.253 73.257 73.263 73.260 73.262 73.257 73.258 73.257 73.258 73.258 73.258 73.260 73.261 73.261 73.259
09/08/23 16:24:201890.90973.13509/08/23 17:45:201889.89073.20809/08/23 19:06:201888.99909/08/23 16:25:201890.90473.13909/08/23 17:46:201889.87073.20709/08/23 19:07:201888.97209/08/23 16:26:201890.89973.14209/08/23 17:47:201889.86573.20809/08/23 19:07:201888.96909/08/23 16:27:201890.88173.14209/08/23 17:48:201889.86573.21209/08/23 19:08:201888.96209/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21309/08/23 19:10:201888.96109/08/23 16:29:201890.87773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:11:201888.935	73.256 73.253 73.254 73.257 73.260 73.260 73.257 73.258 73.258 73.257 73.258 73.260 73.261 73.259
09/08/23 16:25:201890.90473.13909/08/23 17:46:201889.87073.20709/08/23 19:07:201888.97209/08/23 16:26:201890.89973.14209/08/23 17:47:201889.86573.20809/08/23 19:08:201888.96909/08/23 16:27:201890.88173.14309/08/23 17:48:201889.84673.21209/08/23 19:09:201888.95209/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21309/08/23 19:10:201888.96109/08/23 16:29:201890.84773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:201889.935	73.253 73.254 73.257 73.263 73.260 73.262 73.257 73.258 73.258 73.257 73.258 73.260 73.261 73.259
09/08/23 16:26:201890.89973.14209/08/23 17:47:201889.86573.20809/08/23 19:08:201888.96909/08/23 16:27:201890.88173.14309/08/23 17:48:201889.84673.21209/08/23 19:09:201888.95209/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21909/08/23 19:10:201888.96109/08/23 16:28:201890.87773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:201889.935	73.254 73.263 73.260 73.262 73.257 73.258 73.257 73.258 73.258 73.260 73.261 73.259
09/08/23 16:27:201890.88173.14309/08/23 17:48:201889.84673.21209/08/23 19:09:201888.95209/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21909/08/23 19:10:201889.96109/08/23 16:29:201890.84773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:201889.935	73.257 73.263 73.260 73.257 73.258 73.257 73.258 73.258 73.260 73.261 73.259
09/08/23 16:28:201890.87773.14509/08/23 17:49:201889.85373.21909/08/23 19:10:201889.96109/08/23 16:29:201890.84773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:201889.935	73.263 73.262 73.257 73.258 73.257 73.258 73.260 73.260 73.261 73.259
09/08/23 16:29:201890.84773.13909/08/23 17:50:201889.82373.21309/08/23 19:11:201888.94209/08/23 16:30:201890.85073.14409/08/23 17:51:201889.81073.21109/08/23 19:12:201888.935	73.260 73.262 73.257 73.258 73.257 73.258 73.260 73.261 73.259
	73.257 73.258 73.257 73.258 73.260 73.261 73.259
	73.258 73.257 73.258 73.260 73.261 73.259
09/08/23 16:31:20 1890.818 73.144 09/08/23 17:52:20 1889.799 73.206 09/08/23 19:13:20 1888.903	73.257 73.258 73.260 73.261 73.259
09/08/23 16:32:20 1890.807 73.143 09/08/23 17:53:20 1889.787 73.211 09/08/23 19:14:20 1888.897 09/08/23 16:33:20 1890.794 73.141 09/08/23 17:54:20 1889.766 73.208 09/08/23 19:15:20 1888.878	73.258 73.260 73.261 73.259
09/08/23 16:34:20 1890.783 73.140 09/08/23 17:55:20 1889.763 73.208 09/08/23 19:15:20 1888.881	73.260 73.261 73.259
09/08/23 16:35:20 1890.772 73.140 09/08/23 17:56:20 1889.754 73.211 09/08/23 19:17:20 1888.894	73.259
09/08/23 16:36:20 1890.759 73.136 09/08/23 17:57:20 1889.756 73.212 09/08/23 19:18:20 1888.870	
09/08/23 16:37:20 1890.744 73.140 09/08/23 17:58:20 1889.744 73.214 09/08/23 19:19:20 1888.845	
09/08/23 16:38:20 1890.729 73.141 09/08/23 17:59:20 1889.742 73.213 09/08/23 19:20:20 1888.826 09/08/23 16:39:20 1890.722 73.136 09/08/23 18:00:20 1889.730 73.217 09/08/23 19:21:20 1888.817	73.259 73.254
09/08/23 16:40:20 1890.707 73.135 09/08/23 18:01:20 1880.696 73.214 09/08/23 19:21:20 1888.806	73.254
09/08/23 16:41:20 1890.713 73.139 09/08/23 18:02:20 1889.700 73.218 09/08/23 19:23:20 1888.801	73.252
09/08/23 16:42:20 1890.672 73.132 09/08/23 18:03:20 1889.665 73.215 09/08/23 19:24:20 1888.789	73.247
09/08/23 16:43:20 1890.667 73.135 09/08/23 18:04:20 1889.651 73.216 09/08/23 19:25:20 1888.792	73.252
09/08/23 16:44:20 1890.653 73.134 09/08/23 18:05:20 1889.651 73.218 09/08/23 19:26:20 1888.757 09/08/23 16:45:20 1890.637 73.133 09/08/23 18:06:20 1889.619 73.216 09/08/23 19:27:20 1888.740	73.247 73.250
09/08/23 16:46:20 1890.610 73.134 09/08/23 18:07:20 1889.626 73.218 09/08/23 19:27:20 1888.751	73.253
09/08/23 16:47:20 1890.616 73.141 09/08/23 18:08:20 1889.633 73.223 09/08/23 19:29:20 1888.718	73.246
09/08/23 16:48:20 1890.607 73.143 09/08/23 18:09:20 1889.624 73.224 09/08/23 19:30:20 1888.727	73.248
09/08/23 16:49:20 1890.609 73.145 09/08/23 18:10:20 1889.606 73.216 09/08/23 19:31:20 1888.716	73.249
09/08/23 16:50:20 1890.588 73.143 09/08/23 18:11:20 1889.590 73.222 09/08/23 19:32:20 1888.702	73.250
09/08/23 16:51:20 1890.573 73.148 09/08/23 18:12:20 1889.573 73.218 09/08/23 19:33:20 1888.690 09/08/23 16:52:20 1890.535 73.147 09/08/23 18:13:20 1889.566 73.224 09/08/23 19:33:20 1888.685	73.248 73.251
09/08/23 16:53:20 1890.536 73:157 09/08/23 16:15:20 1889.557 73:229 09/08/23 19:35:20 1888.677	73.242
09/08/23 16:54:20 1890.520 73.151 09/08/23 18:15:20 1889.540 73.228 09/08/23 19:36:20 1888.668	73.249
09/08/23 16:55:20 1890.505 73.152 09/08/23 18:16:20 1889.528 73.236 09/08/23 19:37:20 1888.670	73.255
09/08/23 16:56:20 1890.504 73.160 09/08/23 18:17:20 1889.530 73.242 09/08/23 19:38:20 1888.644	73.251
09/08/23 16:57:20 1890.490 73.160 09/08/23 18:18:20 1889.511 73.239 09/08/23 19:39:20 1888.611	73.251
09/08/23 16:58:20 1890.471 73.157 09/08/23 18:19:20 1889.490 73.240 09/08/23 19:40:20 1888.623 09/08/23 16:59:20 1890.468 73.159 09/08/23 18:20:20 1889.506 73.249 09/08/23 19:40:20 1888.626	73.253 73.258
09/08/23 17:00:20 1890.427 73.161 09/08/23 18:21:20 1889.491 73.248 09/08/23 19:42:20 1888.615	73.258
09/08/23 17:01:20 1890.434 73.171 09/08/23 18:22:20 1889.465 73.251 09/08/23 19:43:20 1888.604	73.259
09/08/23 17:02:20 1890.422 73.169 09/08/23 18:23:20 1889.460 73.256 09/08/23 19:44:20 1888.573	73.259
09/08/23 17:03:20 1890.384 73.167 09/08/23 18:24:20 1889.435 73.250 09/08/23 19:45:20 1888.564	73.264
09/08/23 17:04:20 1890.384 73.170 09/08/23 18:25:20 1889.444 73.260 09/08/23 19:46:20 1888.562 09/08/23 17:05:20 1890.405 73.178 09/08/23 18:26:20 1889.416 73.258 09/08/23 19:47:20 1888.547	73.267 73.270
09/08/23 17:06:20 1890.379 73.172 09/08/23 18:27:20 1889.412 73.258 09/08/23 19:47:20 1888.539	73.270
09/08/23 17:07:20 1890.384 73.179 09/08/23 18:28:20 1889.390 73.254 09/08/23 19:49:20 1888.535	73.275
09/08/23 17:08:20 1890.361 73.175 09/08/23 18:29:20 1889.377 73.252 09/08/23 19:50:20 1888.526	73.280
09/08/23 17:09:20 1890.331 73.177 09/08/23 18:30:20 1889.396 73.258 09/08/23 19:51:20 1888.528	73.282
09/08/2317:10:201890.31173.17409/08/2318:31:201889.35473.25209/08/2319:52:201888.52109/08/2317:11:201890.29073.17009/08/2318:32:201889.35373.25009/08/2319:53:201888.494	73.281 73.282
09/08/23 17:11:20 1890.282 73.174 09/08/23 18:33:20 1889.356 73.255 09/08/23 19:53:20 1888.482	73.286
09/08/23 17:13:20 1890.271 73.176 09/08/23 18:34:20 1889.323 73.250 09/08/23 19:55:20 1888.484	73.288
09/08/23 17:14:20 1890.277 73.181 09/08/23 18:35:20 1889.314 73.249 09/08/23 19:56:20 1888.465	73.284
09/08/23 17:15:20 1890.255 73.182 09/08/23 18:36:20 1889.307 73.255 09/08/23 19:57:20 1888.467	73.288
09/08/23 17:16:20 1890.247 73.180 09/08/23 18:37:20 1889.299 73.253 09/08/23 19:58:20 1888.440 09/08/23 17:17:20 1890.220 73.177 09/08/23 18:38:20 1889.292 73.257 09/08/23 19:59:20 1888.438	73.285
09/08/23 17:17:20 1890.220 73.177 09/08/23 18:38:20 1889.292 73.257 09/08/23 19:59:20 1888.438 09/08/23 17:18:20 1890.215 73.186 09/08/23 18:39:20 1889.304 73.261 09/08/23 20:00:20 1888.423	73.291 73.290
09/08/23 17:19:20 1890.186 73.184 09/08/23 18:40:20 1889.260 73.254 09/08/23 20:01:20 1888.401	73.289
09/08/23 17:20:20 1890.193 73.183 09/08/23 18:41:20 1889.253 73.260 09/08/23 20:02:20 1888.401	73.293
09/08/23 17:21:20 1890.176 73.183 09/08/23 18:42:20 1889.233 73.262 09/08/23 20:03:20 1888.392	73.291
09/08/23 17:22:20 1890.167 73.181 09/08/23 18:43:20 1889.240 73.265 09/08/23 20:04:20 1888.389	73.290
09/08/23 17:23:20 1890.161 73.187 09/08/23 18:44:20 1889.224 73.261 09/08/23 20:05:20 1888.365 09/08/23 17:24:20 1890.137 73.182 09/08/23 18:45:20 1889.216 73.262 09/08/23 20:05:20 1888.365	73.294 73.292
09/08/23 17:25:20 1890.122 73.183 09/08/23 18:46:20 1889.178 73.256 09/08/23 20:07:20 1888.360	73.292
09/08/23 17:26:20 1890.129 73.190 09/08/23 18:47:20 1889.186 73.258 09/08/23 20:08:20 1888.349	73.295
09/08/23 17:27:20 1890.103 73.190 09/08/23 18:48:20 1889.188 73.264 09/08/23 20:09:20 1888.324	73.294
09/08/23 17:28:20 1890.096 73.195 09/08/23 18:49:20 1889.171 73.260 09/08/23 20:10:20 1888.331	73.298
09/08/23 17:29:20 1890.064 73.193 09/08/23 18:50:20 1889.165 73.261 09/08/23 20:11:20 1888.319 09/08/23 17:30:20 1890.074 73.196 09/08/23 18:51:20 1889.158 73.261 09/08/23 20:12:20 1888.317	73.297
09/08/23 17:30:20 1890.074 73.196 09/08/23 18:51:20 1889.158 73.261 09/08/23 20:12:20 1888.317 09/08/23 17:31:20 1890.060 73.195 09/08/23 18:52:20 1889.127 73.257 09/08/23 20:13:20 1888.317	73.299 73.301
09/08/23 17:32:20 1890.048 73.195 09/08/23 18:53:20 1889.119 73.255 09/08/23 20:14:20 1888.300	73.297
09/08/23 17:33:20 1890.068 73.200 09/08/23 18:54:20 1889.111 73.253 09/08/23 20:15:20 1888.265	73.293
09/08/23 17:34:20 1890.037 73.194 09/08/23 18:55:20 1889.099 73.250 09/08/23 20:16:20 1888.268	73.298
09/08/23 17:35:20 1890.007 73.197 09/08/23 18:56:20 1889.089 73.256 09/08/23 20:17:20 1888.260	73.298
09/08/2317:36:201889.96973.19309/08/2318:57:201889.08873.25809/08/2320:18:201888.25709/08/2317:37:201889.99273.20309/08/2318:58:201889.08073.26309/08/2320:19:201888.243	73.296 73.295
09/08/23 17:38:20 1889.989 73.201 09/08/23 18:59:20 1889.075 73.255 09/08/23 20:20:20 1888.236	73.295
09/08/23 17:39:20 1889.978 73.202 09/08/23 19:00:20 1889.058 73.253 09/08/23 20:21:20 1888.228	73.298
09/08/23 17:40:20 1889.946 73.200 09/08/23 19:01:20 1889.038 73.253 09/08/23 20:22:20 1888.217	73.293
09/08/23 17:41:20 1889.926 73.199 09/08/23 19:02:20 1889.024 73.251 09/08/23 20:23:20 1888.214	73.295
09/08/23 17:42:20 1889.929 73.202 09/08/23 19:03:20 1889.026 73.257 09/08/23 20:24:20 1888.193	73.293

0/16/02 21:25:20 186.16 72:26 0/16/23 21:26:20 186.763 73:37 0/16/23 21:20:20 186.167 73:37 0/16/23 21:20:20 186.763 73:37 0/16/23 21:20:20 186.167 73:37 0/16/23 21:20:20 186.763 73:37 0/16/23 21:20:20 186.763 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 186.76 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 73:37 0/16/23 186.76 73:37 0/16/23 186.76 73:37 0/16/23 186.76 7	Date	Time	Pressure psig	°F	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F
by/dr/2 2012 128 12	09/08/23	20:25:20	1888.196	73.296	09/08/23	21:46:20	1887.440	73.354	09/08/23	23:07:20	1886.764	73.378
by/dp/2 2:2:2:2:2:2 188:.42 7:3:40 09/06/22 1:4:0:2 1:4:0:2 1:4:0:2 7:3:4:0 19/06/22 1:4:0:2 7:3:4:0 19/06/22 1:4:0:2 7:3:4:0 19/06/22 1:1:0:2 1:0:0:2 7:3:4:0 19/06/22 1:1:0:2 1:0:0:2 7:3:4:0 19/06/22 1:1:0:2 1:0:0:2												
0/06/23 20.22 188.150 73.28 0/06/23 188.150 18												
0/0/07.3 0/0/07.3												
0/06/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23 20.321 20.996/23	09/08/23	20:30:20	1888.156	73.297			1887.409		09/08/23	23:12:20	1886.702	73.378
00/06/22 20:53:20 188.06 73.36 00/06/23 20:54:20 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:23 188.06 73.36 00/06/23 20:54:22 188.06 73.36 00/06/23 20:54:23 188.06 73.36 00/06/23 20:54:23 188.06 73.36 00/06/23 20:54:23 188.06 73.38 00/06/23 20:54:23 188.06 73.39 00/06/23 20:54:23 188.06 73.39 00/06/23 20:54:23 188.06 73.39 00/06/23 20:54:23 188.06 73.39 00/06/23 20:54:23 188.06 73.39 00/06/23 20:54:23 188.06 73.39 00/06/24:23 188.06 73.39												
09/09/23 20.34/20 1986.108 73.282 09/08/23 21.51.20 1866.676 73.333 09/08/23 21.51.22 1866.676 73.334 09/08/23 20.137.20 1988.089 73.237 09/08/23 21.51.22 1866.676 73.344 09/08/23 20.137.20 1988.089 73.237 09/08/23 21.51.22 1866.676 73.348 09/08/23 20.137.20 1886.041 73.286 09/08/23 21.51.22 1866.676 73.384 09/08/23 20.137.20 1886.041 73.286 09/08/23 21.52.21 1866.656 73.384 09/08/23 20.142.20 1886.022 73.284 09/08/23 21.52.21 1866.656 73.384 09/08/23 20.142.20 1886.027 73.284 09/08/23 21.52.21 1866.656 73.384 09/08/23 20.142.20 1886.041 73.384 73.384 09/08/23 21.52.21 1866.656 73.384 09/08/23 20.142.20 188.4764 73.384 09/												
09/09/22 20:36:20 1088.066 73.289 09/09/22 21:37:20 187.344 75.338 09/09/22 21:35:20 186.607 73.376 09/09/22 20:31:20 188.067 73.376 09/09/22 21:35:20 1867.346 09/09/22 21:35:20 1867.346 09/09/22 21:25:20 1867.346 09/09/22 21:25:20 1867.345 09/09/22 21:22:20 1867.353 09/09/22 21:22:20 1867.353 09/09/22 21:22:20 1867.354 09/09/22 21:22:20 1867.355 09/09/22 21:22:20 1867.355 09/09/22 21:22:20 1867.355 09/09/22 21:22:20 1867.355 09/09/22 21:22:20 1867.355 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.356 09/09/22 21:20:20 187.357 09/09/22 21:20:20												
04/04/23 20.712-20 1088.009 71.240 09/06/23 21.58-20 187.146 73.348 09/06/23 21.58-20 186.67 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.7 73.348 09/06/23 21.58-20 186.62 73.348 04/06/23 21.64-20 186.7 186.7 13.78 09/06/23 22.63-20 186.7 73.348 09/06/23 22.63-20 186.62 73.348 09/06/23 22.63-20 186.62 73.378 09/06/23 22.63-20 186.62 73.348 09/06/23 22.63-20 186.62 73.348 09/06/23 22.63-20 186.62 73.378 09/06/23 22.63-20 186.62 73.378 09/06/23 22.63-20 186.56 73.378												
04/04/23 20:32:20 1884.066 73.386 04/04/23 20:32:20 1886.056 73.388 04/04/23 20:42:20 1887.038 73.338 04/04/23 20:31:12:0 1866.066 73.388 04/04/23 20:42:20 1887.038 73.338 04/04/23 20:42:20 1866.067 73.388 04/04/23 20:42:20 1887.038 73.348 04/04/23 21:42:20 1866.067 73.388 04/04/23 20:42:20 1887.038 07:04/23 21:42:20 1866.067 73.388 04/04/23 20:42:20 1867.067 73.348 07:04/23 21:42:20 1866.067 73.388 04/04/23 20:42:20 1867.067 73.358 07:04/23 21:42:20 1867.067 73.388 07:04/23 21:42:20 1866.067 73.388 04/04/23 20:42:20 1867.067 73.389 07:04/23 21:42:20 1867.067 73.388 07:04/23 21:42:20 1867.067 73.388 07:04/23 21:42:20 186.058 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
09/09/22 21:0:0:0 109/09/23 21:0:0:0 1097/09/23												
09/07622 20/07/22												
09/09/22 21:62:20 1886.022 73:240 09/09/23 22:24:20 1866.642 73:340 09/09/23 22:64:20 1867.342 1807.324 09/09/23 23:22:20 1866.642 73:340 09/09/23 22:64:20 1807.864 1807.264 73:346 09/09/23 23:22:20 1866.645 73:370 09/09/23 22:64:20 1807.264 73:346 09/09/23 23:22:20 1866.645 73:370 09/09/23 20:47:20 1807.264 73:346 09/09/23 33:31:20 1866.650 73:380 09/09/23 20:47:20 1807.264 73:347 09/09/23 33:31:20 1866.651 73:380 09/09/23 20:52:20 1807.264 73:347 09/09/23 33:31:20 1866.532 73:380 09/09/23 20:52:20 1807.264 73:348 09/09/23 23:31:20 1866.537 73:380 09/09/23 20:52:20 1807.566 73:360 09/09/23 23:31:20 1866.537 73:380												
09/09/22 20/03/20 188.022 73.240 09/09/23 20/03/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 22:02:02 188.0 09/09/23 23:02:02 188.0 09/09/23 23:02:02 188.0 09/09/23 23:02:02 188.0 09/09/23 23:02:02 188.0 09/09/23 23:02:02 188.0 09/09/23 188.0 09/09/23 188.0 09/09/23 188.0 09/09/23 188.0 09/09/23 188.0 09/09/23 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0 188.0												
04/06/22 02/06/22	09/08/23	20:43:20		73.294	09/08/23	22:04:20		73.344	09/08/23	23:25:20		73.377
09/09/23 02/09/23 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
09/08/22 02/08/23												
09(06/23 02(06/23												
09/08/23 02/08/23												
09/08/23 02/08/23												
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $												
09/08/23 02/08/23			1887.921				1887.208				1886.532	
09/06/23 02/06/23												
09/08/23 02:56:20 1887.857 73.295 09/08/23 22:18:20 1886.505 73.390 09/08/23 02:58:20 1887.866 73.300 09/08/23 22:18:20 1887.170 73.350 09/08/23 23:18:20 1886.433 73.394 09/08/23 02:10:20 1887.867 73.394 09/08/23 22:12:120 1887.170 73.355 09/08/23 23:42:20 1886.437 73.395 09/08/23 02:10:20 1887.877 73.396 09/08/23 22:12:20 1887.137 73.396 09/08/23 23:44:20 1886.449 73.395 09/08/23 21:02:20 1887.877 73.306 09/08/23 22:25:20 1887.115 73.356 09/08/23 23:44:20 1886.441 73.396 09/08/23 21:07:10 1887.757 73.366 09/08/23 23:44:20 1886.441 73.396 09/08/23 21:07:10 1887.757 73.366 09/08/23 23:44:20 1886.441 73.396 09/08/23 21:07:20 1												
99.08/23 20:58:20 1887.865 73.300 09/08/23 22:10:20 1887.170 73.382 09/08/23 23:40:20 1886.493 73.394 09/08/23 21:10:20 1887.857 73.394 09/08/23 21:10:20 1887.87 73.394 09/08/23 21:10:20 1887.87 73.391 09/08/23 22:22:20 1887.127 73.355 09/08/23 21:42:20 1886.493 73.393 09/08/23 21:02:20 1887.817 73.300 09/08/23 22:22:20 1887.102 73.356 09/08/23 21:42:20 1886.443 73.394 09/08/23 21:04:20 1887.687 73.310 09/08/23 22:22:20 1887.115 73.356 09/08/23 21:46:20 1886.443 73.404 09/08/23 11:67:20 1887.687 73.316 09/08/23 22:46:20 1886.449 73.351 09/08/23 21:46:20 1886.449 73.404 09/08/23 21:09:20 1887.757 73.316 09/08/23 22:36:20 1887.687 <												
99/98/23 20:99:20 1887.865 73.394 09/08/23 22:21:20 1887.150 73.355 09/08/23 22:14:12:0 1886.475 73.395 09/08/23 21:01:20 1887.888 73.300 09/08/23 22:21:20 1887.132 73.355 09/08/23 22:41:20 1887.136 73.354 09/08/23 22:41:20 1887.136 73.354 09/08/23 22:41:20 1887.136 73.354 09/08/23 22:41:20 1887.136 73.354 09/08/23 22:41:20 1887.168 73.354 09/08/23 22:41:20 1887.168 73.354 09/08/23 22:41:20 1887.058 73.351 09/08/23 22:41:20 1887.058 73.351 09/08/23 22:41:20 1887.058 73.351 09/08/23 22:41:20 1887.058 73.351 09/08/23 21:41:20 1887.68 73.351 09/08/23 21:41:20 1887.68 73.351 09/08/23 21:41:20 1887.68 73.351 09/08/23 21:41:20 1886.401 73.404 09/08/23 21:41:20 1886.401 73.404 09/08/23 21:41:20 1886.401 73.404 09/08/23 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
09/08/23 21:00:20 1887.827 73.286 09/08/23 21:22:20 1887.152 73.551 09/08/23 21:42:20 1886.475 73.393 09/08/23 21:02:20 1887.817 73.300 09/08/23 22:22:20 1887.102 73.554 09/08/23 23:44:20 1886.459 73.393 09/08/23 21:02:20 1887.187 73.305 09/08/23 22:42:20 1887.115 73.556 09/08/23 23:44:20 1886.427 73.944 09/08/23 21:05:20 1887.769 73.315 09/08/23 22:42:20 1887.068 73.351 09/08/23 23:44:20 1886.424 73.946 09/08/23 21:05:20 1887.765 73.316 09/08/23 22:15:20 1887.058 73.352 09/08/23 23:15:20 1886.401 73.496 09/08/23 21:10:20 1887.765 73.316 09/08/23 21:15:20 1887.177 73.325 09/08/23 21:15:20 1886.387 73.408 09/08/23 21:15:20 1887.717												
09/08/23 21:02:20 1887.817 73.305 09/08/23 22:32:20 1887.102 73.356 09/08/23 23:44:20 1866.432 73.394 09/08/23 21:04:20 1887.817 73.305 09/08/23 22:45:20 1887.115 73.356 09/08/23 23:46:20 1866.432 73.394 09/08/23 21:06:20 1887.788 73.305 09/08/23 22:27:20 1887.095 73.351 09/08/23 21:46:20 1866.424 73.399 09/08/23 21:06:20 1887.763 73.314 09/08/23 22:21:0 1887.088 73.351 09/08/23 21:51:20 1866.400 73.406 09/08/23 21:10:20 1887.755 73.316 09/08/23 22:31:20 1887.058 73.352 09/08/23 21:51:20 1866.362 73.401 09/08/23 21:11:20 1887.717 73.325 09/08/23 22:51:20 1866.362 73.440 09/08/23 21:11:20 1887.717 73.326 09/08/23 22:51:20 1866.387												
09/08/23 21:03:20 1887.811 73.305 09/08/23 22:44:20 1887.136 73.356 09/08/23 21:45:20 1887.1357 73.366 09/08/23 21:46:20 1886.424 73.404 09/08/23 21:06:20 1887.787 73.307 09/08/23 22:26:20 1887.098 73.351 09/08/23 21:47:20 1886.427 73.401 09/08/23 21:06:20 1887.762 73.310 09/08/23 21:07:20 1887.763 73.401 09/08/23 21:06:20 1887.755 73.316 09/08/23 22:30:20 1887.057 73.352 09/08/23 21:01:20 1887.762 73.325 09/08/23 21:31:20 1887.747 73.252 09/08/23 21:31:20 1887.717 73.326 09/08/23 21:35:10 1866.362 73.414 09/08/23 21:14:20 1887.717 73.326 09/08/23 22:35:10 1866.362 73.414 09/08/23 21:14:20 1887.717 73.326 09/08/23 22:35:10 1866.362 73.414												
09/08/23 21:04:20 1887.287 73:307 09/08/23 22:25:20 1887.115 73:356 09/08/23 23:46:20 1886.442 73:404 09/08/23 21:05:20 1887.789 73:315 09/08/23 22:27:20 1887.088 73:351 09/08/23 23:44:20 1886.427 73:401 09/08/23 21:05:20 1887.763 73:314 09/08/23 22:02:01 1887.058 73:355 09/08/23 23:55:20 1886.408 73:433 09/08/23 21:10:20 1887.750 73:316 09/08/23 22:01 1887.058 73:355 09/08/23 23:55:20 1886.383 73:401 09/08/23 21:11:20 1887.747 73:325 09/08/23 21:35:20 1887.024 73:346 09/08/23 23:55:20 1886.344 73:402 09/08/23 21:13:20 1887.717 73:326 09/08/23 21:35:20 1887.029 73:346 09/08/23 23:55:20 1886.347 73:440 09/08/23 21:13:20 1887.717 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
09/08/23 21:05:20 1887.098 73.353 09/08/23 23:47:20 1886.424 73.396 09/08/23 21:05:20 1887.162 73.316 09/08/23 23:48:20 1886.421 73.398 09/08/23 21:05:20 1887.762 73.314 09/08/23 23:45:20 1886.401 73.398 09/08/23 21:05:20 1887.755 73.316 09/08/23 21:05:20 1887.059 73.353 09/08/23 23:55:20 1886.400 73.406 09/08/23 21:11:20 1887.762 73.325 09/08/23 23:55:20 1886.362 73.401 09/08/23 21:11:20 1887.717 73.326 09/08/23 22:15:20 1887.029 73.348 09/08/23 23:55:20 1886.387 73.408 09/08/23 21:15:20 1887.717 73.326 09/08/23 22:15:20 1887.029 73.348 09/08/23 23:55:20 1886.391 73.413 09/08/23 21:15:20 1887.717 73.326 09/08/23 21:15:20 18												
09/08/23 21:07:20 1887.762 73.309 09/08/23 21:28:20 1887.073 73.352 09/08/23 21:09:20 1887.073 73.352 09/08/23 21:09:20 1887.075 73.316 09/08/23 21:09:20 1887.075 73.316 09/08/23 21:09:20 1887.057 73.356 09/08/23 21:01:20 1886.400 73.400 09/08/23 21:11:20 1887.772 73.326 09/08/23 21:12:20 1887.047 73.344 09/08/23 21:51:20 1886.362 73.401 09/08/23 21:11:20 1887.717 73.326 09/08/23 22:34:20 1887.017 73.344 09/08/23 23:55:20 1886.387 73.440 09/08/23 21:11:20 1887.717 73.326 09/08/23 21:01:07 73.344 09/08/23 23:55:20 1886.387 73.440 09/08/23 21:11:520 1887.707 73.321 09/08/23 23:51:20 1886.387 73.410 09/08/23 21:11:520 1887.707 73.321 09/08/23	09/08/23	21:05:20	1887.798	73.305	09/08/23	22:26:20	1887.095		09/08/23	23:47:20	1886.424	73.396
99/88/23 21:08:20 1887.763 73.314 09/08/23 22:29:20 1887.058 73.352 09/08/23 23:50:20 1886.408 73.406 09/08/23 21:10:20 1887.750 73.316 09/08/23 21:10:20 1887.058 73.352 09/08/23 21:52:20 1886.383 73.401 09/08/23 21:11:20 1887.747 73.325 09/08/23 22:12:20 1887.024 73.347 09/08/23 23:52:20 1886.348 73.402 09/08/23 21:11:20 1887.177 73.325 09/08/23 22:52:20 1887.024 73.344 09/08/23 23:52:20 1886.348 73.402 09/08/23 21:11:20 1887.173 73.328 09/08/23 22:52:20 1887.108 73.351 09/08/23 23:51:20 1886.380 73.413 09/08/23 21:16:20 1887.73 73.332 09/08/23 22:51:20 1887.018 73.351 09/08/23 23:51:20 1886.380 73.413 09/08/23 21:16:20 1887.690 73.331 09/08/23 22:16:20 1886.991 73.351 09/08/23 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
09/08/23 21:09:20 1887.755 73.316 09/08/23 22:30:20 1887.059 73.352 09/08/23 23:51:20 1886.400 73.460 09/08/23 21:11:20 1887.762 73.325 09/08/23 23:52:20 1886.383 73.401 09/08/23 21:11:20 1887.772 73.325 09/08/23 23:55:20 1886.382 73.401 09/08/23 21:11:20 1887.717 73.326 09/08/23 23:55:20 1886.385 73.408 09/08/23 21:11:520 1887.717 73.326 09/08/23 22:15:20 1887.010 73.346 09/08/23 23:55:20 1886.385 73.413 09/08/23 21:11:520 1887.097 73.322 09/08/23 22:35:20 1886.390 73.413 09/08/23 21:11:520 1887.697 73.332 09/08/23 22:49:20 1887.018 73.557 09/08/23 21:55:20 1886.390 73.413 09/08/23 21:11:20 1887.697 73.330 09/08/23 22:49:20 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
09/08/23 21:11:20 1887.762 73.325 09/08/23 22:32:20 1887.041 73.349 09/08/23 23:53:20 1886.346 73.401 09/08/23 21:13:20 1887.717 73.321 09/08/23 22:35:20 1887.024 73.349 09/08/23 23:55:20 1886.348 73.408 09/08/23 21:13:20 1887.717 73.320 09/08/23 22:35:20 1887.029 73.348 09/08/23 23:55:20 1886.365 73.414 09/08/23 21:15:20 1887.705 73.332 09/08/23 22:35:20 1887.018 73.357 09/08/23 23:55:20 1886.330 73.413 09/08/23 21:15:20 1887.697 73.332 09/08/23 22:35:20 1886.391 73.434 09/09/23 00:01:00 1886.329 73.411 09/08/23 21:21:20 1887.697 73.332 09/08/23 22:44:20 1886.982 73.351 09/09/23 00:01:00 1886.397 73.413 09/08/23 21:22:00 1887.649 73.310 09/08/23 22:44:20 1886.966 73.361 09/09/23 <												
09/08/2321:12:201887.74773.32509/08/2322:33:201887.02473.34709/08/2323:54:201886.38773.40209/08/2321:14:201887.71773.32109/08/2322:35:201887.02373.34809/08/2323:55:201886.38773.40809/08/2321:15:201887.71773.32809/08/2322:35:201887.01073.34809/08/2323:55:201886.38773.41809/08/2321:15:201887.05773.33209/08/2322:35:201887.01073.34809/08/2323:55:201886.33973.41009/08/2321:15:201887.69773.33209/08/2322:35:201886.69273.35109/09/2300:00:201886.39773.41309/08/2321:12:021887.69773.33109/08/2322:41:201886.98273.55109/09/2300:01:201886.39673.41309/08/2321:21:201887.66373.33009/08/2322:41:201886.98673.35109/09/2300:03:201886.28673.41309/08/2321:22:201887.64373.33009/08/2322:44:201886.94073.36109/09/2300:05:201886.28673.41309/08/2321:22:201887.63773.33009/08/2322:44:201886.94773.36609/09/2300:05:201886.28673.42209/08/2321:22:201887.66373.33009/08/2322:44:201886.94773.36609/09/2300:05:201												
09/08/33 21:13:20 1887.717 73.321 09/08/33 22:3:220 1887.033 73.340 09/08/23 23:55:20 1886.387 73.408 09/08/23 21:15:20 1887.713 73.328 09/08/23 22:3:20 1887.010 73.348 09/08/23 23:55:20 1886.397 73.418 09/08/23 21:15:20 1887.705 73.322 09/08/23 22:3:20 1887.010 73.348 09/08/23 23:55:20 1886.339 73.410 09/08/23 21:15:20 1887.690 73.331 09/08/23 22:13:20 1886.991 73.357 09/09/23 00:120 1886.309 73.413 09/08/23 21:21:20 1887.690 73.331 09/08/23 22:41:20 1886.962 73.357 09/09/23 00:120 1886.265 73.413 09/08/23 21:22:20 1887.643 73.332 09/08/23 22:44:20 1886.940 73.360 09/09/23 00:05:20 1886.267 73.413 09/08/23 21:22:20 1887.663 7												
09/08/23 21:15:20 1887.713 73.228 09/08/23 22:36:20 1887.010 73.348 09/08/23 23:57:20 1886.329 73.408 09/08/23 21:16:20 1887.769 73.327 09/08/23 22:33:20 1886.992 73.351 09/08/23 23:55:20 1886.339 73.410 09/08/23 21:18:20 1887.697 73.331 09/08/23 22:13:20 1886.992 73.351 09/08/23 00:01:20 1886.399 73.413 09/08/23 21:21:20 1887.679 73.330 09/08/23 22:41:20 1886.982 73.351 09/09/23 00:01:20 1886.296 73.413 09/08/23 21:22:20 1887.643 73.331 09/08/23 22:44:20 1886.969 73.361 09/09/23 00:05:20 1886.277 73.413 09/08/23 21:22:20 1887.643 73.336 09/08/23 22:44:20 1886.940 73.361 09/09/23 00:05:20 1886.277 73.423 09/08/23 21:22:20 1887.676												
09/08/23 21:16:20 1887.705 73.332 09/08/23 22:37:20 1887.018 73.357 09/08/23 23:55 1866.330 73.413 09/08/23 21:18:20 1887.697 73.332 09/08/23 22:39:20 1886.991 73.349 09/09/23 00:01:20 1886.339 73.417 09/08/23 21:19:20 1887.697 73.331 09/08/23 22:142.01 1886.991 73.355 09/09/23 00:01:20 1886.399 73.413 09/08/23 21:12:12 1887.663 73.331 09/08/23 22:142.01 1886.962 73.551 09/09/23 00:01:20 1886.285 73.413 09/08/23 21:12:20 1887.663 73.332 09/08/23 22:142.01 1886.940 73.361 09/09/23 00:01:20 1886.271 73.413 09/08/23 21:12:20 1887.663 73.332 09/08/23 22:14:20 1886.917 73.366 09/09/23 00:01:20 1886.246 73.423 09/08/23 21:12:10 1887.626												
09/08/2321:17:201887.69073.32709/08/2322:38:201886.99273.35109/08/2323:59:201886.33973.41009/08/2321:19:201887.69773.33209/08/2322:39:201886.99173.34909/09/2300:01:201886.33973.41709/08/2321:19:201887.69773.33009/08/2322:40:201886.99773.55709/09/2300:01:201886.28673.41309/08/2321:21:201887.69773.33109/08/2322:42:201886.98273.35109/09/2300:02:201886.28573.41309/08/2321:22:201887.64973.33109/08/2322:42:201886.96973.36109/09/2300:06:201886.28573.41309/08/2321:22:201887.63873.33609/08/2322:44:201886.94773.36609/09/2300:06:201886.26673.42309/08/2321:25:201887.63673.33209/08/2322:44:201886.91473.35609/09/2300:06:201886.25573.42209/08/2321:25:201887.65773.33209/08/2322:49:201886.91773.36609/09/2300:06:201886.26673.42309/08/2321:25:201887.55773.34209/08/2322:50:201886.91773.36609/09/2300:1201886.22673.42409/08/2321:32:201887.55773.34309/08/2322:50:201886.55773.36609/09/2300:12:20188												
09/08/23 21:18:20 1887.697 73.332 09/08/23 22:39:20 1886.991 73.345 09/09/23 00:00:20 1886.329 73.417 09/08/23 21:12:20 1887.697 73.330 09/08/23 22:41:20 1886.982 73.357 09/09/23 00:01:20 1886.296 73.413 09/08/23 21:21:20 1887.663 73.330 09/08/23 22:41:20 1886.962 73.351 09/09/23 00:02:20 1886.285 73.413 09/08/23 21:22:20 1887.643 73.332 09/08/23 22:44:20 1886.964 73.360 09/09/23 00:05:20 1886.271 73.423 09/08/23 21:25:20 1887.636 73.336 09/08/23 22:44:20 1886.947 73.366 09/09/23 00:05:20 1886.266 73.423 09/08/23 21:25:20 1887.636 73.332 09/08/23 22:44:20 1886.914 73.366 09/09/23 00:07:20 1886.265 73.425 09/08/23 21:25:20 1887.611 73.332 09/08/23 22:46:20 1886.917 73.366 09/09/23 <												
09/08/2321:20:201887.67973.33009/08/2322:41:201886.98273.33709/09/2300:02:201886.28673.41309/08/2321:21:201887.64373.33109/08/2322:42:201886.95273.35109/09/2300:03:201886.28573.41309/08/2321:22:201887.64373.33109/08/2322:44:201886.94073.36109/09/2300:05:201886.27773.41309/08/2321:24:201887.63873.33609/08/2322:44:201886.94073.36709/09/2300:05:201886.27673.44309/08/2321:22:201887.63673.33609/08/2322:44:201886.94773.36709/09/2300:05:201886.26673.442309/08/2321:22:201887.63673.33209/08/2322:44:201886.91473.35609/09/2300:08:201886.25573.442309/08/2321:22:201887.65173.33209/08/2322:44:201886.91773.36609/09/2300:10:201886.24673.42309/08/2321:22:201887.65173.34009/08/2322:51:201886.90773.36609/09/2300:11:201886.24673.42309/08/2321:31:201887.55773.34009/08/2322:55:201886.87573.36609/09/2300:13:201886.22673.42309/08/2321:33:201887.55173.34009/08/2322:55:201886.87173.37009/09/2300:14:20 <td< td=""><td></td><td></td><td>1887.697</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			1887.697									
09/08/2321:21:201887.66373.33009/08/2322:42:201886.95273.35309/09/2300:3:201886.28573.41509/08/2321:22:201887.64373.33109/08/2322:44:201886.96973.36109/09/2300:04:201886.27773.41309/08/2321:24:201887.64373.33609/08/2322:44:201886.94773.36009/09/2300:06:201886.26673.41309/08/2321:25:201887.63673.33609/08/2322:46:201886.94773.36609/09/2300:06:201886.26573.42209/08/2321:25:201887.60273.33609/08/2322:47:201886.92773.36609/09/2300:08:201886.24673.42509/08/2321:27:201887.60273.33209/08/2322:49:201886.91773.36609/09/2300:10:201886.24673.42709/08/2321:29:201887.61173.33909/08/2322:49:201886.93273.36609/09/2300:11:201886.24373.42709/08/2321:30:201887.58573.34209/08/2322:55:201886.89073.36709/09/2300:13:201886.21873.42309/08/2321:31:201887.59573.34209/08/2322:55:201886.89773.36609/09/2300:13:201886.21873.42709/08/2321:31:201887.59573.34309/08/2322:55:201886.85673.36609/09/2300:14:2018												
09/08/2321:22:201887.64973.3109/08/2322:43:201886.96973.36109/09/2300:04:201886.27773.41309/08/2321:21:22:201887.64373.33209/08/2322:44:201886.94073.36709/09/2300:05:201886.27173.42309/08/2321:22:201887.63673.33609/08/2322:44:201886.94773.36709/09/2300:06:201886.25573.42209/08/2321:22:201887.60273.33209/08/2322:44:201886.92873.36309/09/2300:09:201886.25673.42309/08/2321:27:201887.59573.33209/08/2322:49:201886.92273.36309/09/2300:10:201886.24373.42709/08/2321:29:201887.58573.34009/08/2322:50:201886.91773.36609/09/2300:11:201886.24373.42709/08/2321:31:201887.58573.34009/08/2322:51:201886.89073.36709/09/2300:11:201886.22973.42309/08/2321:31:201887.58673.34309/08/2322:55:201886.87573.36609/09/2300:11:201886.22973.42309/08/2321:33:201887.55373.34409/08/2322:55:201886.87173.37009/09/2300:14:201886.20673.42409/08/2321:33:201887.55173.34409/08/2322:55:201886.85973.37009/09/2300:14:20 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
09/08/2321:24:201887.63873.33609/08/2322:45:201886.94773.36709/09/2300:06:201886.26673.41909/08/2321:25:201887.63673.33609/08/2322:46:201886.91473.35809/09/2300:07:201886.25573.42209/08/2321:26:201887.60273.33209/08/2322:47:201886.91773.36609/09/2300:09:201886.25673.42309/08/2321:27:201887.61173.33909/08/2322:49:201886.93273.37309/09/2300:10:201886.24373.42709/08/2321:29:201887.65573.34009/08/2322:50:201886.90773.36609/09/2300:11:201886.21873.42709/08/2321:31:201887.59573.34309/08/2322:50:201886.87573.36609/09/2300:11:201886.21873.42709/08/2321:31:201887.59573.34309/08/2322:55:201886.87573.36609/09/2300:11:201886.21873.42309/08/2321:33:201887.55373.34409/08/2322:55:201886.87573.36609/09/2300:16:201886.17373.41809/08/2321:33:201887.55173.34709/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.41809/08/2321:33:201887.55173.34709/08/2322:55:201886.85673.37109/09/2300:16:201	09/08/23	21:22:20	1887.649	73.331	09/08/23	22:43:20	1886.969	73.361	09/09/23	00:04:20	1886.277	73.413
09/08/2321:25:201887.63673.33609/08/2322:46:201886.91473.35809/09/2300:07:201886.25573.42209/08/2321:26:201887.60273.33209/08/2322:47:201886.92873.36609/09/2300:08:201886.25073.42509/08/2321:27:201887.59573.33209/08/2322:48:201886.91773.36309/09/2300:09:201886.24673.42309/08/2321:28:201887.58573.34009/08/2322:49:201886.93273.37309/09/2300:10:201886.23473.42709/08/2321:30:201887.59773.34209/08/2322:51:201886.89073.36609/09/2300:11:201886.23473.42709/08/2321:31:201887.59773.34309/08/2322:55:201886.87573.36609/09/2300:13:201886.22973.42309/08/2321:32:201887.55373.34009/08/2322:55:201886.87573.36609/09/2300:15:201886.21073.42409/08/2321:33:201887.55173.34109/08/2322:55:201886.85673.36809/09/2300:15:201886.17373.41209/08/2321:35:201887.55173.34309/08/2322:55:201886.84173.37009/09/2300:17:201886.17873.42209/08/2321:35:201887.55173.34709/08/2322:55:201886.84173.37009/09/2300:17:201												
09/08/2321:26:201887.60273.33209/08/2322:47:201886.92873.36609/09/2300:08:201886.25073.42509/08/2321:27:201887.59573.33209/08/2322:48:201886.91773.36309/09/2300:09:201886.24673.42309/08/2321:28:201887.61173.33909/08/2322:49:201886.93273.37309/09/2300:10:201886.24673.42709/08/2321:29:201887.58573.34009/08/2322:50:201886.89073.36709/09/2300:11:201886.21873.42009/08/2321:31:201887.58873.34309/08/2322:55:201886.89073.36609/09/2300:12:201886.21873.42009/08/2321:33:201887.56073.34009/08/2322:55:201886.87173.36609/09/2300:14:201886.20673.42409/08/2321:33:201887.55373.34409/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.41809/08/2321:35:201887.55173.34409/08/2322:55:201886.85873.37109/09/2300:18:201886.18073.42309/08/2321:35:201887.55173.34109/08/2322:55:201886.83173.37109/09/2300:18:201886.18073.42309/08/2321:35:201887.55173.34109/08/2322:55:201886.83173.37109/09/2300:18:201												
09/08/2321:28:201887.61173.33909/08/2322:49:201886.93273.37309/09/2300:10:201886.24373.42709/08/2321:29:201887.58573.34009/08/2322:50:201886.90773.36609/09/2300:11:201886.23473.42709/08/2321:30:201887.58773.34209/08/2322:51:201886.80073.36709/09/2300:12:201886.21873.42309/08/2321:31:201887.58873.34309/08/2322:52:201886.87573.36609/09/2300:13:201886.22973.42309/08/2321:33:201887.56073.34009/08/2322:55:201886.86773.36809/09/2300:15:201886.21073.42709/08/2321:33:201887.55173.34409/08/2322:55:201886.85973.37009/09/2300:15:201886.17373.41809/08/2321:35:201887.55173.34709/08/2322:57:201886.85873.37009/09/2300:17:201886.18073.42209/08/2321:37:201887.55673.35109/08/2322:58:201886.84173.37009/09/2300:18:201886.18073.42309/08/2321:37:201887.51273.35109/08/2322:59:201886.83073.37709/09/2300:21:201886.18073.42309/08/2321:39:201887.51273.35109/08/2322:59:201886.83173.37009/09/2300:21:201	09/08/23	21:26:20	1887.602	73.332	09/08/23	22:47:20	1886.928	73.366	09/09/23	00:08:20	1886.250	73.425
09/08/2321:29:201887.58573.34009/08/2322:50:201886.90773.36609/09/2300:11:201886.23473.42709/08/2321:30:201887.59773.34209/08/2322:51:201886.89073.36709/09/2300:12:201886.21873.42009/08/2321:31:201887.59573.34309/08/2322:52:201886.87573.36609/09/2300:13:201886.22973.42309/08/2321:33:201887.59573.34009/08/2322:53:201886.87173.37009/09/2300:14:201886.20673.42409/08/2321:33:201887.55073.34009/08/2322:55:201886.85673.36809/09/2300:15:201886.21673.42709/08/2321:35:201887.55173.34709/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.42209/08/2321:35:201887.55173.34709/08/2322:57:201886.85873.37109/09/2300:17:201886.18073.42209/08/2321:37:201887.55073.34709/08/2322:57:201886.85173.37109/09/2300:18:201886.18073.42309/08/2321:38:201887.51073.44709/08/2322:59:201886.83173.37009/09/2300:21:201886.18073.41809/08/2321:39:201887.51273.35109/08/2322:59:201886.80873.37009/09/2300:21:201												
09/08/2321:30:201887.59773.34209/08/2322:51:201886.89073.36709/09/2300:12:201886.21873.42009/08/2321:31:201887.58873.34309/08/2322:52:201886.87573.36609/09/2300:13:201886.22973.42309/08/2321:32:201887.55573.34309/08/2322:53:201886.87173.37009/09/2300:14:201886.20673.42409/08/2321:33:201887.55073.34009/08/2322:55:201886.85673.36809/09/2300:15:201886.21673.42709/08/2321:34:201887.55173.34709/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.41809/08/2321:35:201887.55173.34709/08/2322:57:201886.85873.37109/09/2300:17:201886.18073.42209/08/2321:37:201887.51073.34709/08/2322:57:201886.85873.37109/09/2300:18:201886.18073.42509/08/2321:38:201887.51073.34709/08/2322:59:201886.83173.37009/09/2300:19:201886.18073.42609/08/2321:39:201887.51273.35109/08/2322:59:201886.83173.37009/09/2300:21:201886.18673.41809/08/2321:40:201887.44573.35209/08/2323:02:201886.81173.37009/09/2300:21:201												
09/08/2321:32:201887.59573.34309/08/2322:53:201886.87173.37009/09/2300:14:201886.20673.42409/08/2321:33:201887.56073.34009/08/2322:54:201886.85673.36809/09/2300:15:201886.21073.42709/08/2321:34:201887.55373.34409/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.44809/08/2321:35:201887.55173.34109/08/2322:55:201886.84373.36809/09/2300:16:201886.17373.42209/08/2321:35:201887.55173.34109/08/2322:57:201886.84373.37109/09/2300:18:201886.18073.42209/08/2321:36:201887.53673.35109/08/2322:59:201886.84173.37009/09/2300:19:201886.18073.42309/08/2321:39:201887.51273.34109/08/2322:59:201886.83073.37709/09/2300:21:201886.18473.41609/08/2321:39:201887.49773.35209/08/2323:00:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48573.35209/08/2323:02:201886.81873.37709/09/2300:23:201886.13973.42509/08/2321:43:201887.46373.35109/08/2323:04:201886.77873.37009/09/2300:23:201												
09/08/2321:33:201887.56073.34009/08/2322:54:201886.85673.36809/09/2300:15:201886.21073.42709/08/2321:34:201887.55373.34409/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.41809/08/2321:35:201887.55173.34709/08/2322:56:201886.84373.36809/09/2300:17:201886.17873.42209/08/2321:36:201887.55173.34109/08/2322:57:201886.85873.37109/09/2300:18:201886.18073.42209/08/2321:37:201887.55673.35109/08/2322:59:201886.84173.37009/09/2300:18:201886.18073.42309/08/2321:38:201887.51073.34709/08/2322:59:201886.83073.37709/09/2300:20:201886.15373.41809/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.13673.42009/08/2321:40:201887.48773.35209/08/2323:02:201886.81873.37709/09/2300:23:201886.13673.42509/08/2321:43:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:23:201886.13573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.77873.37009/09/2300:23:201												
09/08/2321:34:201887.55373.34409/08/2322:55:201886.85973.37009/09/2300:16:201886.17373.41809/08/2321:35:201887.55173.34709/08/2322:56:201886.84373.36809/09/2300:17:201886.17873.42209/08/2321:35:201887.55173.34709/08/2322:57:201886.84373.36809/09/2300:17:201886.18073.42209/08/2321:37:201887.53673.35109/08/2322:57:201886.85873.37109/09/2300:18:201886.18073.42309/08/2321:38:201887.51073.34709/08/2322:59:201886.83073.37709/09/2300:19:201886.18073.41809/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.14473.41609/08/2321:40:201887.49773.35209/08/2323:01:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48473.35809/08/2323:02:201886.77873.37009/09/2300:23:201886.11573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.77873.37009/09/2300:23:201886.11573.42009/08/2321:43:201887.46373.55109/08/2323:05:201886.78373.37009/09/2300:24:201												
09/08/2321:35:201887.55173.34709/08/2322:56:201886.84373.36809/09/2300:17:201886.17873.42209/08/2321:36:201887.53173.34309/08/2322:57:201886.85873.37109/09/2300:18:201886.18073.42509/08/2321:37:201887.53073.35109/08/2322:58:201886.84173.37009/09/2300:19:201886.18073.42509/08/2321:38:201887.51073.34709/08/2322:59:201886.83073.37709/09/2300:20:201886.18073.41809/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.14473.41609/08/2321:40:201887.49773.35209/08/2323:02:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48573.35209/08/2323:02:201886.77873.37009/09/2300:23:201886.11573.42509/08/2321:43:201887.46373.35109/08/2323:04:201886.77873.37009/09/2300:23:201886.11573.42009/08/2321:43:201887.46373.35409/08/2323:05:201886.78373.37709/09/2300:24:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201												
09/08/2321:37:201887.53673.35109/08/2322:58:201886.84173.37009/09/2300:19:201886.18073.42309/08/2321:38:201887.51073.34709/08/2322:59:201886.83073.37709/09/2300:20:201886.15373.41809/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.14473.41609/08/2321:40:201887.49773.35209/08/2323:01:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48573.35209/08/2323:02:201886.81873.37709/09/2300:23:201886.13973.42509/08/2321:42:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:23:201886.11573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.76973.37709/09/2300:25:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201886.10773.418	09/08/23	21:35:20	1887.551	73.347	09/08/23	22:56:20	1886.843	73.368	09/09/23	00:17:20	1886.178	73.422
09/08/2321:38:201887.51073.34709/08/2322:59:201886.83073.37709/09/2300:20:201886.15373.41809/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.14473.41609/08/2321:40:201887.49773.35209/08/2323:01:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48573.35209/08/2323:02:201886.81873.37009/09/2300:23:201886.13973.42009/08/2321:42:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:24:201886.11573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.76973.37709/09/2300:25:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201886.10773.418												
09/08/2321:39:201887.51273.35109/08/2323:00:201886.83173.37509/09/2300:21:201886.14473.41609/08/2321:40:201887.49773.35209/08/2323:01:201886.80873.37009/09/2300:22:201886.13673.42009/08/2321:41:201887.48573.35209/08/2323:02:201886.81873.37709/09/2300:23:201886.13973.42509/08/2321:42:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:24:201886.11573.41809/08/2321:43:201887.46373.5109/08/2323:04:201886.76973.37709/09/2300:25:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201886.10773.418												
09/08/2321:41:201887.48573.35209/08/2323:02:201886.81873.37709/09/2300:23:201886.13973.42509/08/2321:42:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:24:201886.11573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.76973.37709/09/2300:25:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201886.10773.418	09/08/23	21:39:20	1887.512	73.351	09/08/23	23:00:20	1886.831	73.375	09/09/23	00:21:20	1886.144	73.416
09/08/2321:42:201887.48473.35809/08/2323:03:201886.77873.37009/09/2300:24:201886.11573.41809/08/2321:43:201887.46373.35109/08/2323:04:201886.76973.37709/09/2300:25:201886.10473.42009/08/2321:44:201887.45673.35409/08/2323:05:201886.78373.38309/09/2300:26:201886.10773.418												
09/08/23 21:43:20 1887.463 73.351 09/08/23 23:04:20 1886.769 73.377 09/09/23 00:25:20 1886.104 73.420 09/08/23 21:44:20 1887.456 73.354 09/08/23 23:05:20 1886.783 73.383 09/09/23 00:26:20 1886.107 73.418												
U9/U8/25 21:45:2U 188/.431 /3.353 U9/U8/23 23:06:2U 1886./56 /3.378 U9/U9/23 00:27:20 1886.115 73.419												
	09/08/23	21:45:20	100/.431	13.353	09/08/23	23:06:20	1000./50	13.318	09/09/23	00:27:20	1000.115	/3.419

Date Time	Pressure psig	Temp °F	Date Time	Pressure psig	°F	Date Time	Pressure psig	Temp °F
09/09/23 00:28:20	1886.109	73.424	09/09/23 01:49:20	1885.423	73.423	09/09/23 03:10:20	1884.790	73.447
09/09/23 00:29:20	1886.092	73.422	09/09/23 01:50:20	1885.419	73.426	09/09/23 03:11:20	1884.763	73.444
09/09/23 00:30:20		73.425	09/09/23 01:51:20	1885.410	73.428	09/09/23 03:12:20	1884.766	73.448
09/09/23 00:31:20		73.422	09/09/23 01:52:20	1885.386	73.423	09/09/23 03:13:20 09/09/23 03:14:20	1884.757 1884.757	73.448 73.448
09/09/23 00:32:20 09/09/23 00:33:20		73.427 73.425	09/09/23 01:53:20 09/09/23 01:54:20	1885.381 1885.395	73.421 73.428	09/09/23 03:14:20	1884.757	73.448
09/09/23 00:34:20		73.426	09/09/23 01:55:20	1885.385	73.435	09/09/23 03:16:20	1884.741	73.448
09/09/23 00:35:20		73.423	09/09/23 01:56:20	1885.377	73.438	09/09/23 03:17:20	1884.721	73.447
09/09/23 00:36:20		73.423	09/09/23 01:57:20	1885.366	73.437	09/09/23 03:18:20	1884.720	73.452
09/09/23 00:37:20		73.426	09/09/23 01:58:20	1885.351	73.438	09/09/23 03:19:20	1884.725	73.450
09/09/23 00:38:20 09/09/23 00:39:20		73.419 73.420	09/09/23 01:59:20 09/09/23 02:00:20	1885.340 1885.350	73.435 73.435	09/09/23 03:20:20 09/09/23 03:21:20	1884.705 1884.693	73.449 73.448
09/09/23 00:40:20		73.423	09/09/23 02:01:20	1885.331	73.438	09/09/23 03:22:20	1884.679	73.448
09/09/23 00:41:20		73.423	09/09/23 02:02:20	1885.325	73.442	09/09/23 03:23:20	1884.675	73.446
09/09/23 00:42:20		73.419	09/09/23 02:03:20	1885.305	73.443	09/09/23 03:24:20	1884.677	73.449
09/09/23 00:43:20		73.419	09/09/23 02:04:20	1885.325	73.455	09/09/23 03:25:20	1884.662	73.447
09/09/23 00:44:20 09/09/23 00:45:20		73.419 73.423	09/09/23 02:05:20 09/09/23 02:06:20	1885.317 1885.297	73.457 73.459	09/09/23 03:26:20 09/09/23 03:27:20	1884.652 1884.636	73.452 73.454
09/09/23 00:46:20		73.423	09/09/23 02:07:20	1885.297	73.464	09/09/23 03:27:20	1884.641	73.453
09/09/23 00:47:20		73.416	09/09/23 02:08:20	1885.258	73.461	09/09/23 03:29:20	1884.617	73.453
09/09/23 00:48:20		73.419	09/09/23 02:09:20	1885.268	73.466	09/09/23 03:30:20	1884.626	73.459
09/09/23 00:49:20		73.419	09/09/23 02:10:20	1885.265	73.461	09/09/23 03:31:20	1884.607	73.454
09/09/23 00:50:20 09/09/23 00:51:20		73.412 73.412	09/09/23 02:11:20 09/09/23 02:12:20	1885.251 1885.255	73.467 73.475	09/09/23 03:32:20 09/09/23 03:33:20	1884.592 1884.589	73.455 73.453
09/09/23 00:52:20		73.412	09/09/23 02:12:20	1885.242	73.472	09/09/23 03:33:20	1884.583	73.455
09/09/23 00:53:20		73.413	09/09/23 02:14:20	1885.236	73.471	09/09/23 03:35:20	1884.590	73.457
09/09/23 00:54:20		73.418	09/09/23 02:15:20	1885.219	73.469	09/09/23 03:36:20	1884.571	73.456
09/09/23 00:55:20		73.414	09/09/23 02:16:20	1885.237	73.477	09/09/23 03:37:20	1884.589	73.461
09/09/23 00:56:20		73.414	09/09/23 02:17:20	1885.209	73.474	09/09/23 03:38:20	1884.563	73.454
09/09/23 00:57:20 09/09/23 00:58:20		73.412 73.417	09/09/23 02:18:20 09/09/23 02:19:20	1885.209 1885.181	73.476 73.472	09/09/23 03:39:20 09/09/23 03:40:20	1884.555 1884.549	73.458 73.455
09/09/23 00:59:20		73.417	09/09/23 02:20:20	1885.193	73.472	09/09/23 03:40:20	1884.554	73.459
09/09/23 01:00:20		73.411	09/09/23 02:21:20	1885.180	73.470	09/09/23 03:42:20	1884.517	73.452
09/09/23 01:01:20		73.412	09/09/23 02:22:20	1885.159	73.468	09/09/23 03:43:20	1884.512	73.452
09/09/23 01:02:20		73.418	09/09/23 02:23:20	1885.150	73.468	09/09/23 03:44:20	1884.503	73.446
09/09/23 01:03:20 09/09/23 01:04:20		73.419 73.413	09/09/23 02:24:20 09/09/23 02:25:20	1885.156 1885.168	73.470 73.472	09/09/23 03:45:20 09/09/23 03:46:20	1884.504 1884.485	73.448 73.447
09/09/23 01:05:20		73.413	09/09/23 02:25:20	1885.144	73.469	09/09/23 03:40:20	1884.507	73.447
09/09/23 01:06:20		73.415	09/09/23 02:27:20	1885.133	73.473	09/09/23 03:48:20	1884.498	73.449
09/09/23 01:07:20		73.415	09/09/23 02:28:20	1885.117	73.477	09/09/23 03:49:20	1884.495	73.457
09/09/23 01:08:20		73.417	09/09/23 02:29:20	1885.122	73.474	09/09/23 03:50:20	1884.485	73.458
09/09/23 01:09:20		73.419	09/09/23 02:30:20	1885.102	73.475	09/09/23 03:51:20	1884.462	73.455
09/09/23 01:10:20 09/09/23 01:11:20		73.416 73.419	09/09/23 02:31:20 09/09/23 02:32:20	1885.096 1885.079	73.478 73.476	09/09/23 03:52:20 09/09/23 03:53:20	1884.448 1884.429	73.456 73.451
09/09/23 01:12:20		73.422	09/09/23 02:33:20	1885.065	73.475	09/09/23 03:54:20	1884.422	73.454
09/09/23 01:13:20	1885.725	73.426	09/09/23 02:34:20	1885.075	73.478	09/09/23 03:55:20	1884.416	73.451
09/09/23 01:14:20		73.423	09/09/23 02:35:20	1885.071	73.482	09/09/23 03:56:20	1884.434	73.459
09/09/23 01:15:20 09/09/23 01:16:20		73.420 73.421	09/09/23 02:36:20 09/09/23 02:37:20	1885.069 1885.048	73.486 73.475	09/09/23 03:57:20 09/09/23 03:58:20	1884.417 1884.398	73.466 73.461
09/09/23 01:17:20		73.421	09/09/23 02:37:20	1885.029	73.472	09/09/23 03:58:20	1884.391	73.461
09/09/23 01:18:20		73.426	09/09/23 02:39:20	1885.024	73.475	09/09/23 04:00:20	1884.377	73.461
09/09/23 01:19:20		73.422	09/09/23 02:40:20	1885.032	73.477	09/09/23 04:01:20	1884.386	73.467
09/09/23 01:20:20		73.421	09/09/23 02:41:20	1885.018	73.475	09/09/23 04:02:20	1884.360	73.466
09/09/23 01:21:20 09/09/23 01:22:20			09/09/23 02:42:20 09/09/23 02:43:20	1884.996 1884.982		09/09/23 04:03:20 09/09/23 04:04:20	1884.342 1884.354	73.458 73.468
09/09/23 01:22:20			09/09/23 02:44:20	1884.981		09/09/23 04:04:20	1884.347	73.400
09/09/23 01:24:20			09/09/23 02:45:20	1884.971		09/09/23 04:06:20	1884.323	73.466
09/09/23 01:25:20	1885.617	73.429	09/09/23 02:46:20	1884.970		09/09/23 04:07:20	1884.340	73.471
09/09/23 01:26:20			09/09/23 02:47:20	1884.953		09/09/23 04:08:20	1884.332	73.480
09/09/23 01:27:20 09/09/23 01:28:20			09/09/23 02:48:20 09/09/23 02:49:20	1884.988 1884.972		09/09/23 04:09:20 09/09/23 04:10:20	1884.318 1884.288	73.483 73.481
09/09/23 01:29:20		73.430		1884.927		09/09/23 04:10:20	1884.295	73.481
09/09/23 01:30:20			09/09/23 02:51:20	1884.930		09/09/23 04:12:20	1884.299	73.491
09/09/23 01:31:20		73.440		1884.903		09/09/23 04:13:20	1884.281	73.490
09/09/23 01:32:20		73.437		1884.907		09/09/23 04:14:20	1884.271	73.493
09/09/23 01:33:20			09/09/23 02:54:20	1884.916		09/09/23 04:15:20	1884.255	73.493
09/09/23 01:34:20 09/09/23 01:35:20		/3.433 73.437	09/09/23 02:55:20 09/09/23 02:56:20	1884.897 1884.885		09/09/23 04:16:20 09/09/23 04:17:20	1884.253 1884.244	73.501 73.501
09/09/23 01:35:20			09/09/23 02:57:20	1884.878		09/09/23 04:17:20	1884.225	73.498
09/09/23 01:37:20		73.431		1884.882		09/09/23 04:19:20	1884.221	73.496
09/09/23 01:38:20		73.436	09/09/23 02:59:20	1884.871		09/09/23 04:20:20	1884.226	73.504
09/09/23 01:39:20		73.438		1884.870		09/09/23 04:21:20	1884.222	73.500
09/09/23 01:40:20			09/09/23 03:01:20	1884.841		09/09/23 04:22:20	1884.226	73.498
09/09/23 01:41:20 09/09/23 01:42:20			09/09/23 03:02:20 09/09/23 03:03:20	1884.848 1884.842		09/09/23 04:23:20 09/09/23 04:24:20	1884.203 1884.189	73.499 73.500
09/09/23 01:43:20		73.435		1884.838		09/09/23 04:24:20	1884.190	73.501
09/09/23 01:44:20		73.432	09/09/23 03:05:20	1884.829	73.453	09/09/23 04:26:20	1884.187	73.499
09/09/23 01:45:20			09/09/23 03:06:20	1884.798		09/09/23 04:27:20	1884.165	73.497
09/09/23 01:46:20		73.433		1884.810		09/09/23 04:28:20	1884.159	73.496
09/09/23 01:47:20 09/09/23 01:48:20			09/09/23 03:08:20 09/09/23 03:09:20	1884.800 1884.797		09/09/23 04:29:20 09/09/23 04:30:20	1884.161 1884.141	73.497 73.493
	1000.100		1, 0., 20 00.00.20	2001.101	.5.115	1	1001.11	.5.155

Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F	Date	Time	Pressure psig	Temp °F
09/09/23	04:31:20	1884.143	73.498	09/09/23	05:52:20	1883.484	73.498				
09/09/23		1884.144	73.497	09/09/23	05:53:20	1883.474	73.497				
09/09/23		1884.133	73.495	, ,	05:54:20	1883.484	73.498				
09/09/23 09/09/23		1884.124 1884.104	73.495 73.489		05:55:20 05:56:20	1883.465 1883.453	73.505 73.500				
09/09/23		1884.105	73.492		05:57:20	1883.456	73.498				
09/09/23		1884.093	73.492		05:58:20	1883.454	73.495				
09/09/23		1884.096	73.491		05:59:20	1883.457	73.496				
09/09/23 09/09/23		1884.074 1884.068	73.487 73.486		06:00:20 06:01:20	1883.426 1883.420	73.488 73.486				
09/09/23		1884.055	73.490		06:02:20	1883.402	73.478				
09/09/23		1884.057	73.489		06:03:20	1883.408	73.478				
09/09/23		1884.041	73.489		06:04:20	1883.399	73.478				
09/09/23 09/09/23		1884.046 1884.027	73.489 73.486		06:05:20 06:06:20	1883.379 1883.374	73.477 73.480				
09/09/23		1884.016	73.487		06:07:20	1883.404	73.489				
09/09/23		1884.004	73.485		06:08:20	1883.379	73.484				
09/09/23		1883.998	73.486		06:09:20	1883.373	73.483				
09/09/23 09/09/23		1884.014 1884.011	73.491 73.496		06:10:20 06:11:20	1883.357 1883.343	73.487 73.493				
09/09/23		1883.987	73.494		06:12:20	1883.339	73.493				
09/09/23		1883.969	73.492		06:13:20	1883.314	73.493				
09/09/23		1883.959	73.494		06:14:20	1883.318	73.497				
09/09/23 09/09/23		1883.946 1883.946	73.492 73.492		06:15:20 06:16:20	1883.296 1883.330	73.498 73.511				
09/09/23		1883.936	73.493		06:17:20	1883.305	73.505				
09/09/23		1883.922	73.494		06:18:20	1883.308	73.510				
09/09/23		1883.930	73.498		06:19:20	1883.297	73.512				
09/09/23 09/09/23		1883.923 1883.914	73.496 73.498		06:20:20 06:21:20	1883.273 1883.276	73.513 73.514				
09/09/23		1883.874	73.486		06:22:20	1883.260	73.512				
09/09/23		1883.901	73.496		06:23:20	1883.264	73.519				
09/09/23 09/09/23		1883.895 1883.889	73.497 73.497		06:24:20 06:25:20	1883.235 1883.230	73.517 73.521				
09/09/23		1883.875	73.501		06:26:20	1883.232	73.518				
09/09/23	05:06:20	1883.870	73.500		06:27:20	1883.227	73.523				
09/09/23		1883.856	73.501		06:28:20	1883.214	73.521				
09/09/23 09/09/23		1883.842 1883.845	73.499 73.504		06:29:20 06:30:20	1883.196 1883.187	73.527 73.522				
09/09/23		1883.828	73.508	09/09/23	06:31:20	1883.200	73.529				
09/09/23		1883.821	73.509		06:32:20	1883.183	73.522				
09/09/23 09/09/23		1883.801 1883.806	73.505 73.506		06:33:20 06:34:20	1883.194 1883.159	73.528 73.522				
09/09/23		1883.801	73.509		06:35:20	1883.156	73.520				
09/09/23		1883.786	73.510		06:36:20	1883.141	73.521				
09/09/23 09/09/23		1883.775 1883.774	73.509 73.513		06:37:20 06:38:20	1883.136 1883.126	73.522 73.523				
09/09/23		1883.759	73.511		06:39:20	1883.118	73.527				
09/09/23		1883.753	73.506		06:40:20	1883.124	73.526				
09/09/23 09/09/23		1883.768 1883.761	73.511 73.511		06:41:20 06:42:20	1883.132 1883.120	73.531 73.523				
09/09/23		1883.738	73.503		06:42:20	1883.121	73.523				
09/09/23		1883.734		09/09/23		1883.091	73.528				
09/09/23		1883.726	73.507	09/09/23		1883.086	73.524				
09/09/23 09/09/23		1883.696 1883.706	73.504 73.509	09/09/23 09/09/23		1883.070 1883.079	73.524 73.528				
09/09/23		1883.694	73.505		06:48:20	1883.062	73.526				
09/09/23		1883.686	73.502		06:49:20	1883.038	73.526				
09/09/23		1883.695	73.504		06:50:20	1883.038	73.528				
09/09/23 09/09/23		1883.659 1883.657	73.499 73.502	09/09/23	06:51:20 06:52:20	1883.042 1883.051	73.528 73.535				
09/09/23		1883.640	73.498		06:53:20	1883.035	73.532				
09/09/23		1883.646	73.497		06:54:20	1883.018	73.526				
09/09/23 09/09/23		1883.649 1883.633	73.496 73.498	09/09/23	06:55:20 06:56:20	1883.000 1882.990	73.524 73.526				
09/09/23		1883.614	73.496		06:57:20	1883.003	73.527				
09/09/23		1883.613	73.497	09/09/23		1882.998	73.526				
09/09/23 09/09/23		1883.620 1883.582	73.502 73.490	09/09/23	06:59:20 07:00:20	1882.990 1882.975	73.523 73.522				
09/09/23		1883.576	73.493		07:01:20	1882.980	73.529				
09/09/23	05:41:20	1883.579	73.491		07:02:20	1882.967	73.527				
09/09/23 09/09/23		1883.566 1883.561	73.496 73.494	09/09/23	07:03:20	1882.944	73.528				
09/09/23		1883.501	73.494								
09/09/23	05:45:20	1883.551	73.493								
09/09/23 09/09/23		1883.563 1883.533	73.500 73.494								
09/09/23		1883.523	73.494								
09/09/23	05:49:20	1883.515	73.495								
09/09/23 09/09/23		1883.503 1883.504	73.497 73.494								
				1							

APPENDIX H

PANSYSTEM© ANALYSIS OF FALLOFF TEST





Production Optimization Systems PanSystem Application Well Test Analysis Report Date: 9/26/2023

Well Test Analysis Report

File: Republic Romulus 1-12 2023 PFO Analysis.panx

Date: 26-September-2023

Report Details :

Company	Republic Energy & Industrial Solutions, LLC
Location	Romulus Facility
Well	1-12
Test	Reservoir Pressure Falloff
Date	September 7-9, 2023
Injection Interval	4121 - 4645 ft RKB (MD)
Interval Completion	Open-Hole
Gauge Type	Badger Tri Tool
Gauge Serial Number	91874
Gauge Depth	4080 ft RKB
WSP Analyst	TG
WSP Project Number	192128AP



Table of Contents

3
3
3
3
4
4
4
5
5
6
6
6
7
8
8
8
9
9
9
11
11
12



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 1-12
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

Production Optimization Systems PanSystem Application Well Test Analysis Report Date: 9/26/2023

Rate Change Data

DateTime (hh:mm:ss)	Pressure (psia)	Rate (STB/day)
9/7/2023 8:29:29 PM	1899.4	0
9/8/2023 7:46:41 AM	2342.859	-1731.43
9/9/2023 7:03:56 AM	1897.641	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

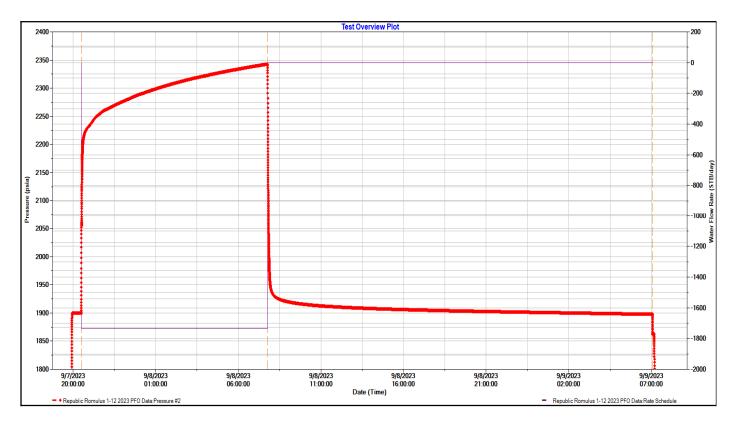
Model - Layer 1 : Model 1

Model Detail

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



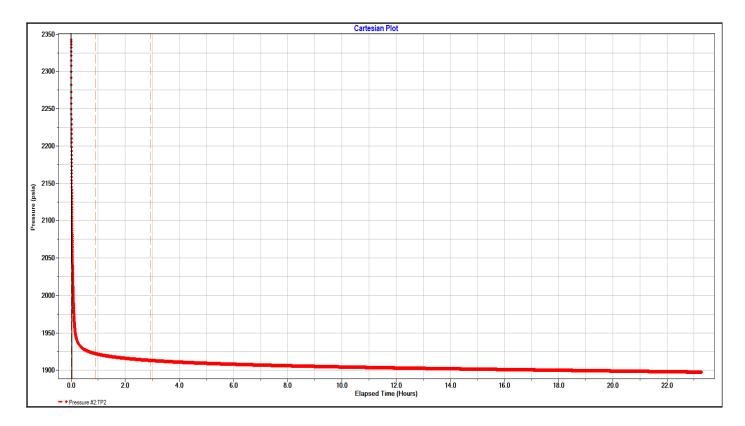
Test Overview Plot



Test Overview Plot



Cartesian Plot:TP2



Cartesian Plot

Line Results

Line Result Parameter	Value
Wellbore storage coefficient (bbl/psi)	0.00713565

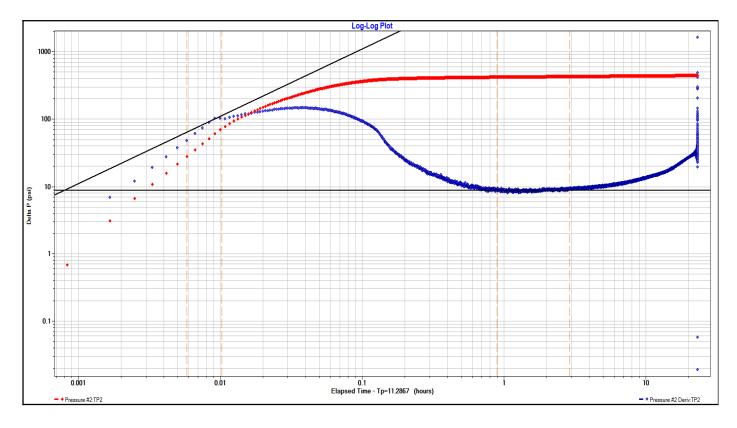
Line Details

Details	Value
Line type	Wellbore storage
Slope	-10110.206
Intercept	2374.734
Coefficient of Determination	0.997



Production Optimization Systems PanSystem Application Well Test Analysis Report Date: 9/26/2023

Log-Log Plot:TP2



Log-Log Plot

Line Results

Line Result Parameter	Value
Wellbore storage coefficient (bbl/psi)	0.00658419
Permeability (md)	142.633
Permeability-thickness (md.ft)	18970.2
Skin factor	17.6459

Line Details

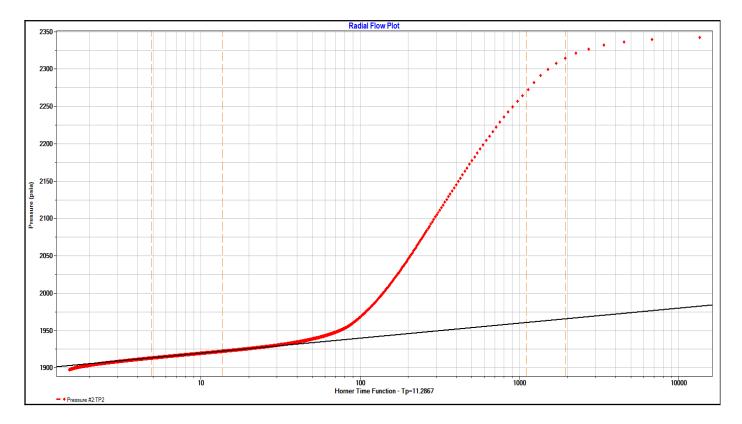
Details	Value
Line type	Wellbore storage
Slope	1
Intercept	10956.983
Coefficient of Determination	Not Used



Details	Value
Line type	Radial flow
Slope	0
Intercept	8.635
Coefficient of Determination	Not Used



Radial Flow Plot:TP2



Radial Flow Plot

Line Results

Line Result Parameter	Value
Permeability (md)	141.869
Permeability-thickness (md.ft)	18868.6
Extrapolated pressure (psia)	1899.64
Radius of investigation (ft)	1743.65
Flow efficiency	0.310843
dP skin (constant rate) (psi)	305.447
Skin factor	17.5926



Production Optimization Systems PanSystem Application Well Test Analysis Report Date: 9/26/2023

Line Details

Details	Value
Line type	Radial flow
Slope	19.989
Intercept	1899.64
Coefficient of Determination	1
Extrapolated pressure (psia)	1899.64
Pressure at dt = 1 hour (psia)	1921.417

APPENDIX I

PRESSURE TEST REPORT DATA



Pressure Test Report

COMPANY INFORMATION

Company Name Representative Phone Fax Address Republic Services Jeffry Tahtouh with WSP USA, Inc. 713-503-7704

Republic Services 28470 Citrin Drive Romulus, MI 48174

E-Mail Address Service Company

WELL INFORMATION

Well Name Well Location Field and Pool Status (Oil, Gas, Water, Injection) Perforated Intervals Mid-point of Perforated Intervals (MPP) **Drilling Rig Number** Elevations Kelly Bushing (KB) Casing Flange (CF) **KB-CF** Ground Level Plug Back Total Depth Total Depth **Production Casing** Production Tubing

TEST INFORMATION

Type of Test Date(s) of Test Dead-weight Gauge Tubing Pressure Dead-weight Gauge Casing Pressure Shut-in Date (Duration) Date / Time on Bottom Date / Time off Bottom

Probe Serial Number Probe Offset from End of Tool String Run Depth at Probe Pressure Port

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure Maximum Recorded Probe Temperature Final Buildup Pressure Gradient Survey Information Extrapolated Pressure to MPP Final Gradient at Depth Job Number Impact Completions, LLC

EGT No1-12 Romulus, Michigan

Waste Water Disposal

13 feet above ground level

Injection/Fall-Off September 07, 2023 thru September 09, 2023

September 08, 2023 at 07:46:41 September 07, 2023 at 19:56:30 September 09, 2023 at 07:03:53

91874

2328.2 psig 78.3 deg F



Company Name Well Name Type of Test Date(s) of Test Republic Services EGT No1-12 Injection/Fall-Off September 07, 2023 thru September 09, 2023

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	April 21, 2023

PROGRAMMING DETAILS

Step Sample Mode Period Duration Comment
--

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



COMMENTS

Reported By

Tim Auker

Zeroed bottom gauge in reference to Kelly Bushing Measurements.

We used measured depths and not true vertical depths.

Top Gauge:91873 (two feet above bottom gauge)Bottom Gauge:91874

The bottom gauge (91874) was used for this report.

Well was static. R.I.H. with tandem electronic memory gauges. Hang bottom gauge at 4080 feet for injection/fall-off test. P.O.O.H. with gauges making gradient stops.



Company Name Well Name Type of Test Date(s) of Test

Republic Services EGT No1-12 Injection/Fall-Off September 07, 2023 thru September 09, 2023

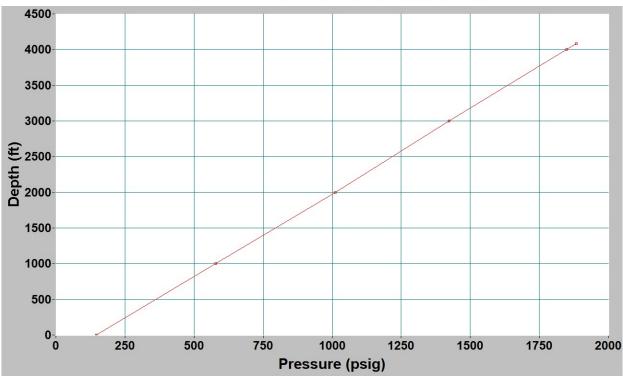
Pressure vs. Depth

Probe Serial Number 91874

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
06:55	07:00	4080.000	1882.981	-	73.524	-
07:04	07:09	4000.000	1848.035	0.4368	77.860	-0.0542
07:14	07:19	3000.000	1423.099	0.4249	72.849	0.0050
07:24	07:29	2000.000	1011.217	0.4119	63.127	0.0097
07:32	07:37	1000.000	579.237	0.4320	59.256	0.0039
07:43	07:49	0.000	145.300	0.4339	62.233	-0.0030

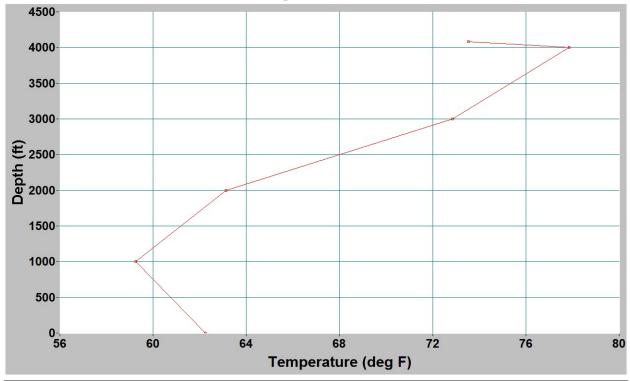
Extrapolated to MPP:	(ft)	(psig)	(deg F)	
	0.000			



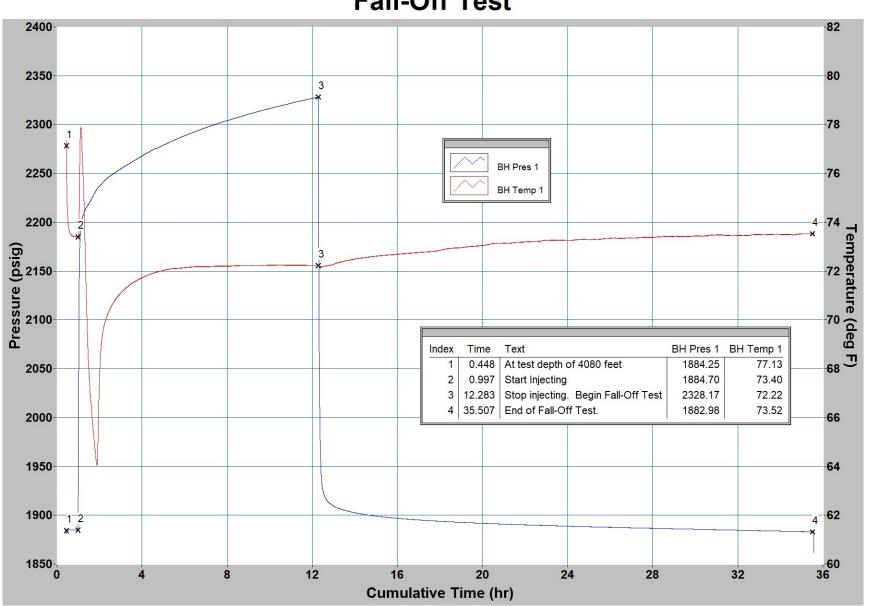


P.O.O.H. Pressure Gradients

P.O.O.H. Temperature Gradients









Date	Time	Cum.Time BH Pres 1 BH Temp BH1 1			
		hr	psig	deg F	
Gauges on s	urface	•			
2023/09/07	19:29:41	0.0000	1.934	73.605	
2023/09/07	19:36:05	0.1067	1.672	73.490	
Gauges in lu	bricator				
2023/09/07	19:39:17	0.1600	1.663	73.499	
R.I.H. with g	auges				
2023/09/07	19:40:38	0.1825	147.059	72.666	
2023/09/07	19:42:05	0.2067	263.995	71.096	
2023/09/07	19:48:05	0.3067	998.546	61.246	
2023/09/07	19:54:05	0.4067	1639.707	73.692	
At test depth	of 4080 fe				
2023/09/07	19:56:32	0.4475	1884.249	77.130	
2023/09/07	20:00:05	0.5067	1885.041	74.233	
2023/09/07	20:06:05	0.6067	1884.874	73.571	
2023/09/07	20:12:05	0.7067	1884.865	73.450	
2023/09/07	20:18:05	0.8067	1884.819	73.413	
2023/09/07	20:24:05	0.9067	1884.767	73.404	
Start Injectin	a				
2023/09/07	20:29:29	0.9967	1884.703	73.396	
2023/09/07	20:30:05	1.0067	1947.504	73.404	
2023/09/07	20:36:05	1.1067	2190.780	77.720	
2023/09/07	20:42:05	1.2067	2205.220	76.390	
2023/09/07	20:48:05	1.3067	2211.539	73.740	
2023/09/07	20:54:05	1.4067	2215.671	70.232	
2023/09/07	21:00:05	1.5067	2218.978	67.851	
2023/09/07	21:06:05	1.6067	2223.363	66.542	
2023/09/07	21:12:05	1.7067	2227.247	65.446	
2023/09/07	21:18:05	1.8067	2231.096	64.571	
2023/09/07	21:24:05	1.9067	2234.501	64.301	
2023/09/07	21:30:05	2.0067	2237.154	67.717	
2023/09/07	21:36:05	2.1067	2239.362	69.174	
2023/09/07	21:42:05	2.2067	2241.839	69.721	
2023/09/07	21:48:05	2.3067	2244.162	70.041	
2023/09/07	21:54:05	2.4067	2245.931	70.279	
2023/09/07	22:00:05	2.5067	2247.335	70.470	
2023/09/07	22:06:05	2.6067	2248.796	70.635	
2023/09/07	22:12:05	2.7067	2250.262	70.776	
2023/09/07	22:18:05	2.8067	2251.751	70.896	
2023/09/07	22:24:05	2.9067	2253.218	71.004	
2023/09/07	22:30:05	3.0067	2254.748	71.107	
2023/09/07	22:36:05	3.1067	2256.028	71.197	
2023/09/07	22:42:05	3.2067	2257.420	71.265	
2023/09/07	22:42:00	3.3067	2258.808	71.348	
2023/09/07	22:54:05	3.4067	2260.216	71.422	
2023/09/07	23:00:05	3.5067	2261.422	71.483	
2023/09/07	23:06:05	3.6067	2262.700	71.539	
2023/09/07	23:12:05	3.7067	2263.995	71.593	
2023/09/07	23:12:05	3.8067	2265.252	71.645	
2023/09/07	23:18:05	3.9067	2266.545	71.688	
2023/09/07	23:24:05	4.0067	2267.927	71.722	
2023/03/07	20.00.00	4.0007	2201.921	11.122	

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2023/09/07	23:36:05	4.1067	2269.180	71.762
2023/09/07	23:42:05	4.2067	2270.379	71.807
2023/09/07	23:48:05	4.3067	2271.678	71.845
2023/09/07	23:54:05	4.4067	2273.020	71.879
2023/09/08	00:00:05	4.5067	2274.074	71.908
2023/09/08	00:06:05	4.6067	2275.079	71.933
2023/09/08	00:12:05	4.7067	2275.840	71.967
2023/09/08	00:18:05	4.8067	2276.862	71.985
2023/09/08	00:24:05	4.9067	2278.023	72.005
2023/09/08	00:30:05	5.0067	2279.036	72.028
2023/09/08	00:36:05	5.1067	2280.041	72.050
2023/09/08	00:42:05	5.2067	2281.011	72.068
2023/09/08	00:48:05	5.3067	2282.042	72.082
2023/09/08	00:54:05	5.4067	2282.961	72.090
2023/09/08	01:00:05	5.5067	2283.854	72.100
2023/09/08	01:06:05	5.6067	2284.817	72.009
2023/09/08	01:12:05	5.7067	2285.831	72.099
2023/09/08	01:12:05	5.8067	2286.882	72.109
2023/09/08	01:24:05	5.9067	2287.700	72.110
2023/09/08	01:30:05			
		6.0067	2288.612	72.136
2023/09/08	01:36:05	6.1067	2289.555	72.149
2023/09/08	01:42:05	6.2067	2290.357	72.160
2023/09/08	01:48:05	6.3067	2291.194	72.162
2023/09/08	01:54:05	6.4067	2292.069	72.169
2023/09/08	02:00:05	6.5067	2292.936	72.181
2023/09/08	02:06:05	6.6067	2293.804	72.180
2023/09/08	02:12:05	6.7067	2294.511	72.176
2023/09/08	02:18:05	6.8067	2295.279	72.178
2023/09/08	02:24:05	6.9067	2296.061	72.183
2023/09/08	02:30:05	7.0067	2296.813	72.180
2023/09/08	02:36:05	7.1067	2297.631	72.185
2023/09/08	02:42:05	7.2067	2298.357	72.187
2023/09/08	02:48:05	7.3067	2299.184	72.194
2023/09/08	02:54:05	7.4067	2299.972	72.196
2023/09/08	03:00:05	7.5067	2300.684	72.196
2023/09/08	03:06:05	7.6067	2301.412	72.192
2023/09/08	03:12:05	7.7067	2302.147	72.199
2023/09/08	03:18:05	7.8067	2302.765	72.194
2023/09/08	03:24:05	7.9067	2303.519	72.201
2023/09/08	03:30:05	8.0067	2304.194	72.205
2023/09/08	03:36:05	8.1067	2304.727	72.212
2023/09/08	03:42:05	8.2067	2305.364	72.203
2023/09/08	03:48:05	8.3067	2306.081	72.210
2023/09/08	03:54:05	8.4067	2306.702	72.217
2023/09/08	04:00:05	8.5067	2307.309	72.221
2023/09/08	04:06:05	8.6067	2307.935	72.225
2023/09/08	04:12:05	8.7067	2308.548	72.228
2023/09/08	04:18:05	8.8067	2309.312	72.226
2023/09/08	04:24:05	8.9067	2309.987	72.228
2023/09/08	04:30:05	9.0067	2310.573	72.225



hr psig deg F 2023/09/08 04:36:05 9.1067 2311.201 72.232 2023/09/08 04:42:05 9.2067 2311.804 72.228 2023/09/08 04:48:05 9.3067 2312.412 72.234 2023/09/08 05:00:05 9.5067 2313.639 72.232 2023/09/08 05:12:05 9.7067 2314.267 72.230 2023/09/08 05:12:05 9.9067 2315.876 72.232 2023/09/08 05:36:05 10.0067 2315.876 72.232 2023/09/08 05:36:05 10.0067 2315.876 72.244 2023/09/08 05:36:05 10.0067 2318.115 72.244 2023/09/08 05:42:05 10.0067 2319.144 72.248 2023/09/08 06:12:05 10.7067 232.215 72.244 2023/09/08 06:12:05 10.7067 232.131 72.244 2023/09/08 06:12:05 11.0067 232.819 72.237 2023/09/08	Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
2023/09/08 04:42:05 9.2067 2311.804 72.228 2023/09/08 04:54:05 9.4067 2313.017 72.234 2023/09/08 05:00:05 9.5067 2313.639 72.232 2023/09/08 05:00:05 9.5067 2314.267 72.230 2023/09/08 05:12:05 9.7067 2315.876 72.232 2023/09/08 05:24:05 9.9067 2315.876 72.232 2023/09/08 05:36:05 10.0067 2316.504 72.235 2023/09/08 05:36:05 10.0067 2318.15 72.244 2023/09/08 05:42:05 10.2067 2318.15 72.244 2023/09/08 05:42:05 10.4067 2318.627 72.248 2023/09/08 06:12:05 10.7067 232.215 72.237 2023/09/08 06:12:05 10.7067 232.131 72.244 2023/09/08 06:12:05 11.0067 232.131 72.243 2023/09/08 06:30:05 11.0067 232.431 72.232			hr	psig	deg F
2023/09/08 04:48:05 9.3067 2312.412 72.234 2023/09/08 05:00:05 9.5067 2313.039 72.232 2023/09/08 05:00:05 9.5067 2314.267 72.230 2023/09/08 05:12:05 9.7067 2314.792 72.232 2023/09/08 05:12:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2316.504 72.232 2023/09/08 05:30:05 10.0067 2317.045 72.244 2023/09/08 05:40:05 10.2067 2318.627 72.248 2023/09/08 05:40:05 10.6067 2319.144 72.243 2023/09/08 06:12:05 10.7067 232.015 72.244 2023/09/08 06:12:05 10.7067 232.1314 72.244 2023/09/08 06:12:05 10.7067 232.1314 72.243 2023/09/08 06:12:05 11.067 232.400 72.234 2023/09/08 06:24:05 11.3067 232.412 72.	2023/09/08	04:36:05	9.1067	2311.201	72.232
2023/09/08 04:54:05 9.4067 2313.017 72.228 2023/09/08 05:00:05 9.5067 2313.639 72.232 2023/09/08 05:10:05 9.7067 2314.267 72.230 2023/09/08 05:11:05 9.7067 2315.384 72.232 2023/09/08 05:12:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2317.045 72.244 2023/09/08 05:42:05 10.2067 2317.145 72.244 2023/09/08 05:54:05 10.4067 2318.115 72.248 2023/09/08 05:54:05 10.4067 2318.115 72.248 2023/09/08 06:10:05 10.5067 2319.103 72.244 2023/09/08 06:12:05 10.7067 2320.215 72.237 2023/09/08 06:12:05 10.9067 2321.811 72.244 2023/09/08 06:24:05 11.0067 2324.431 72.237 2023/09/08 06:42:05 11.0067 2324.431 <td< td=""><td>2023/09/08</td><td>04:42:05</td><td>9.2067</td><td>2311.804</td><td>72.228</td></td<>	2023/09/08	04:42:05	9.2067	2311.804	72.228
2023/09/08 05:00:05 9.5067 2313.639 72.232 2023/09/08 05:06:05 9.6067 2314.267 72.230 2023/09/08 05:12:05 9.7067 2315.384 72.232 2023/09/08 05:13:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2317.045 72.244 2023/09/08 05:40:05 10.2067 2317.593 72.244 2023/09/08 05:40:05 10.0067 2318.115 72.243 2023/09/08 05:40:05 10.0067 2319.703 72.244 2023/09/08 06:00:05 10.5067 2319.703 72.244 2023/09/08 06:12:05 10.7067 2320.215 72.237 2023/09/08 06:30:05 11.0067 2321.314 72.243 2023/09/08 06:30:05 11.0067 2321.314 72.243 2023/09/08 06:40:05 11.0067 2324.401 72.234 2023/09/08 06:40:05 11.0067 2324.431 <t< td=""><td>2023/09/08</td><td>04:48:05</td><td>9.3067</td><td>2312.412</td><td>72.234</td></t<>	2023/09/08	04:48:05	9.3067	2312.412	72.234
2023/09/08 05:06:05 9.6067 2314.267 72.230 2023/09/08 05:12:05 9.7067 2314.792 72.237 2023/09/08 05:18:05 9.8067 2315.384 72.232 2023/09/08 05:24:05 9.9067 2315.876 72.232 2023/09/08 05:36:05 10.1067 2317.045 72.244 2023/09/08 05:42:05 10.2067 2317.593 72.244 2023/09/08 05:54:05 10.4067 2318.115 72.243 2023/09/08 06:00:05 10.5067 2319.703 72.244 2023/09/08 06:12:05 10.9067 2319.703 72.244 2023/09/08 06:12:05 10.9067 2321.314 72.243 2023/09/08 06:30:05 11.0067 2321.811 72.243 2023/09/08 06:30:05 11.0067 2321.314 72.243 2023/09/08 06:42:05 11.2067 2323.412 72.234 2023/09/08 06:42:05 11.0067 2324.431 <t< td=""><td>2023/09/08</td><td>04:54:05</td><td>9.4067</td><td>2313.017</td><td>72.228</td></t<>	2023/09/08	04:54:05	9.4067	2313.017	72.228
2023/09/08 05:12:05 9.7067 2314.792 72.237 2023/09/08 05:18:05 9.8067 2315.384 72.232 2023/09/08 05:24:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2317.045 72.244 2023/09/08 05:42:05 10.2067 2317.593 72.241 2023/09/08 05:54:05 10.4067 2318.627 72.248 2023/09/08 06:00:05 10.5067 2319.144 72.243 2023/09/08 06:12:05 10.7067 2320.215 72.244 2023/09/08 06:12:05 10.7067 2320.819 72.244 2023/09/08 06:12:05 10.7067 2321.814 72.243 2023/09/08 06:30:05 11.0067 2321.81 72.243 2023/09/08 06:42:05 11.0067 2323.412 72.234 2023/09/08 06:42:05 11.0067 2324.895 72.235 2023/09/08 07:00:05 11.6067 2324.431 <t< td=""><td>2023/09/08</td><td>05:00:05</td><td>9.5067</td><td>2313.639</td><td>72.232</td></t<>	2023/09/08	05:00:05	9.5067	2313.639	72.232
2023/09/08 05:18:05 9.8067 2315.384 72.232 2023/09/08 05:24:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2317.045 72.244 2023/09/08 05:42:05 10.2067 2317.593 72.244 2023/09/08 05:42:05 10.4067 2318.115 72.248 2023/09/08 05:54:05 10.4067 2319.144 72.248 2023/09/08 06:00:05 10.6067 2319.103 72.246 2023/09/08 06:12:05 10.7067 2320.215 72.237 2023/09/08 06:12:05 10.9067 2321.314 72.244 2023/09/08 06:30:05 11.0067 2322.400 72.239 2023/09/08 06:42:05 11.2067 2323.412 72.234 2023/09/08 06:42:05 11.0067 2324.431 72.235 2023/09/08 07:00:05 11.6067 2324.431 72.232 2023/09/08 07:12:05 11.7067 2325.807	2023/09/08	05:06:05	9.6067	2314.267	72.230
2023/09/08 05:24:05 9.9067 2315.876 72.232 2023/09/08 05:30:05 10.0067 2316.504 72.235 2023/09/08 05:36:05 10.1067 2317.045 72.244 2023/09/08 05:42:05 10.2067 2317.593 72.241 2023/09/08 05:54:05 10.4067 2318.115 72.248 2023/09/08 06:00:05 10.5067 2319.144 72.243 2023/09/08 06:12:05 10.7067 2320.215 72.244 2023/09/08 06:12:05 10.7067 2321.814 72.243 2023/09/08 06:30:05 11.0067 2321.891 72.243 2023/09/08 06:30:05 11.0067 2322.400 72.239 2023/09/08 06:42:05 11.2067 2323.412 72.234 2023/09/08 06:54:05 11.4067 2323.889 72.237 2023/09/08 07:00:05 11.0067 2324.431 72.232 2023/09/08 07:12:05 11.0067 2324.33	2023/09/08	05:12:05	9.7067	2314.792	72.237
2023/09/0805:30:0510.00672316.50472.2352023/09/0805:42:0510.20672317.04572.2442023/09/0805:42:0510.20672318.11572.2432023/09/0805:54:0510.40672318.62772.2482023/09/0806:00:0510.50672319.14472.2432023/09/0806:01:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:18:0510.80672321.31472.2432023/09/0806:30:0511.00672321.89172.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:36:0511.10672322.40272.2342023/09/0806:42:0511.20672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0806:54:0511.60672324.89572.2352023/09/0807:12:0511.70672325.30972.2342023/09/0807:12:0511.80672326.34972.2352023/09/0807:13:0512.00672327.70772.2322023/09/0807:36:0512.10672327.70772.2322023/09/0807:46:0512.20672327.70772.2322023/09/0807:46:0512.20671947.57372.1802023/09/0807:46:0512.30671947.57372.1802023/09/0807:46:0512.60671918.23072.203 </td <td>2023/09/08</td> <td>05:18:05</td> <td>9.8067</td> <td>2315.384</td> <td>72.232</td>	2023/09/08	05:18:05	9.8067	2315.384	72.232
2023/09/0805:36:0510.10672317.04572.2442023/09/0805:42:0510.20672317.59372.2412023/09/0805:54:0510.40672318.11572.2432023/09/0806:00:0510.50672319.14472.2432023/09/0806:00:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:12:0510.90672321.31472.2432023/09/0806:30:0511.00672321.89172.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:42:0511.20672322.30872.2372023/09/0806:42:0511.30672323.41272.2342023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:12:0511.70672325.30772.2322023/09/0807:12:0511.70672326.34972.2352023/09/0807:30:0512.00672327.30072.2262023/09/0807:40:0512.00672327.70072.2232023/09/0807:40:0512.00672327.70072.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:5512.00671947.57372.1802023/09/0807:46:5512.00671947.57372.180 </td <td>2023/09/08</td> <td>05:24:05</td> <td>9.9067</td> <td>2315.876</td> <td>72.232</td>	2023/09/08	05:24:05	9.9067	2315.876	72.232
2023/09/0805:42:0510.20672317.59372.2412023/09/0805:48:0510.30672318.11572.2432023/09/0806:00:0510.50672319.14472.2432023/09/0806:00:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:12:0510.90672321.31472.2432023/09/0806:24:0510.90672321.31472.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:30:0511.00672322.40072.2392023/09/0806:42:0511.20672322.33872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:12:0511.70672325.30972.2342023/09/0807:12:0511.90672326.34972.2352023/09/0807:12:0511.90672326.77072.2232023/09/0807:30:0512.00672327.30072.2262023/09/0807:40:0512.00672327.70072.2232023/09/0807:40:0512.00672327.70072.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:5512.00671947.57372.1802023/09/0808:00:0512.50671924.75372.189 </td <td>2023/09/08</td> <td>05:30:05</td> <td>10.0067</td> <td>2316.504</td> <td>72.235</td>	2023/09/08	05:30:05	10.0067	2316.504	72.235
2023/09/0805:48:0510.30672318.11572.2432023/09/0806:00:0510.50672319.14472.2482023/09/0806:06:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:12:0510.70672320.81972.2442023/09/0806:16:0510.90672321.31472.2432023/09/0806:30:0511.00672321.89172.2432023/09/0806:36:0511.10672322.40072.2392023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:12:0511.70672325.33972.2322023/09/0807:12:0511.90672326.34972.2352023/09/0807:30:0512.00672327.70072.2232023/09/0807:40:0512.00672327.70072.2232023/09/0807:40:0512.00672327.70072.2232023/09/0807:40:0512.00672327.70072.2232023/09/0807:40:0512.0067194.75372.1802023/09/0807:40:0512.0067194.75372.1802023/09/0807:40:0512.0067194.75372.180	2023/09/08	05:36:05	10.1067	2317.045	72.244
2023/09/0805:54:0510.40672318.62772.2482023/09/0806:00:0510.50672319.14472.2432023/09/0806:60:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:12:0510.90672321.31472.2432023/09/0806:24:0510.90672321.31472.2432023/09/0806:30:0511.00672322.93872.2372023/09/0806:36:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:48:0511.50672324.43172.2352023/09/0806:54:0511.60672324.89572.2352023/09/0807:00:0511.50672324.89572.2352023/09/0807:12:0511.70672325.30772.2322023/09/0807:12:0511.70672326.34972.2322023/09/0807:24:0511.90672326.34972.2322023/09/0807:24:0512.00672327.70072.2232023/09/0807:44:0512.00672327.30072.2262023/09/0807:44:0512.00672327.30072.2232023/09/0807:44:0512.00672327.30072.2232023/09/0807:44:0512.00672327.30072.2232023/09/0807:44:0512.00672327.30072.2232023/09/0807:45:0512.00671947.57372.180 </td <td>2023/09/08</td> <td>05:42:05</td> <td>10.2067</td> <td>2317.593</td> <td>72.241</td>	2023/09/08	05:42:05	10.2067	2317.593	72.241
2023/09/0806:00:0510.50672319.14472.2432023/09/0806:06:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:24:0510.90672321.31472.2432023/09/0806:30:0511.00672321.89172.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:30:0511.00672322.40072.2392023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:00:0511.60672324.89572.2352023/09/0807:12:0511.70672325.30972.2342023/09/0807:12:0511.70672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:42:0512.00672327.70072.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.40671947.57372.1802023/09/0808:00:0512.50671947.57372.1802023/09/0808:00:0512.60671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:18:0512.80671914.72172.244 </td <td>2023/09/08</td> <td>05:48:05</td> <td>10.3067</td> <td>2318.115</td> <td>72.243</td>	2023/09/08	05:48:05	10.3067	2318.115	72.243
2023/09/0806:06:0510.60672319.70372.2462023/09/0806:12:0510.70672320.21572.2372023/09/0806:18:0510.90672321.31472.2442023/09/0806:24:0510.90672321.89172.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:30:0511.00672322.93872.2372023/09/0806:42:0511.20672323.41272.2342023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:00:0511.60672324.89572.2352023/09/0807:12:0511.70672325.30972.2342023/09/0807:12:0511.70672326.34972.2322023/09/0807:30:0512.00672326.78672.2212023/09/0807:30:0512.00672327.70072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.40671947.57372.1802023/09/0808:00:0512.50671914.72172.2212023/09/0808:00:0512.60671914.72172.2212023/09/0808:18:0512.80671914.72172.2352023/09/0808:18:0512.80671914.72172.2442023/09/0808:30:05<	2023/09/08	05:54:05	10.4067	2318.627	72.248
2023/09/0806:12:0510.70672320.21572.2372023/09/0806:18:0510.80672320.81972.2442023/09/0806:24:0510.90672321.31472.2432023/09/0806:30:0511.00672322.40072.2392023/09/0806:36:0511.00672322.93872.2372023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:00:0511.60672324.89572.2352023/09/0807:12:0511.70672325.30972.2342023/09/0807:12:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:42:0512.20672327.30072.2232023/09/0807:42:0512.20672327.30072.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.00671947.57372.1802023/09/0807:46:0512.00671947.57372.1802023/09/0808:00.0512.50671947.57372.1802023/09/0808:12:0512.00671914.72172.2212023/09/0808:12:0512.00671914.72172.2212023/09/0808:12:0512.60671914.72172.213 </td <td>2023/09/08</td> <td>06:00:05</td> <td>10.5067</td> <td>2319.144</td> <td>72.243</td>	2023/09/08	06:00:05	10.5067	2319.144	72.243
2023/09/08 06:18:05 10.8067 2320.819 72.244 2023/09/08 06:24:05 10.9067 2321.314 72.243 2023/09/08 06:30:05 11.0067 2321.891 72.243 2023/09/08 06:36:05 11.1067 2322.400 72.239 2023/09/08 06:42:05 11.2067 2323.412 72.234 2023/09/08 06:48:05 11.3067 2323.412 72.234 2023/09/08 06:54:05 11.4067 2323.889 72.237 2023/09/08 07:00:05 11.6067 2324.431 72.235 2023/09/08 07:06:05 11.6067 2325.307 72.232 2023/09/08 07:12:05 11.7067 2326.349 72.232 2023/09/08 07:30:05 12.0067 2326.786 72.221 2023/09/08 07:42:05 12.2067 2327.770 72.226 2023/09/08 07:46:41 12.2833 2328.168 72.223 2023/09/08 07:48:05 12.3067 1947.573	2023/09/08	06:06:05	10.6067	2319.703	72.246
2023/09/08 06:24:05 10.9067 2321.314 72.243 2023/09/08 06:30:05 11.0067 2321.891 72.243 2023/09/08 06:36:05 11.1067 2322.400 72.239 2023/09/08 06:42:05 11.2067 2322.938 72.237 2023/09/08 06:48:05 11.3067 2323.412 72.234 2023/09/08 06:54:05 11.4067 2323.889 72.237 2023/09/08 07:00:05 11.5067 2324.431 72.235 2023/09/08 07:12:05 11.7067 2325.339 72.234 2023/09/08 07:18:05 11.8067 2326.349 72.232 2023/09/08 07:24:05 12.0067 2326.786 72.221 2023/09/08 07:36:05 12.1067 2327.700 72.223 Stop injecting. Begin Fall-Off Test 2023/09/08 07:46:41 12.2833 2328.168 72.223 2023/09/08 07:54:05 12.4067 1947.573 72.180 2023/09/08 0	2023/09/08		10.7067	2320.215	72.237
2023/09/0806:30:0511.00672321.89172.2432023/09/0806:36:0511.10672322.40072.2392023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.90672326.34972.2352023/09/0807:24:0511.90672326.78672.2212023/09/0807:30:0512.00672327.30072.2262023/09/0807:36:0512.10672327.70072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671914.75372.1802023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.60671918.23072.2352023/09/0808:12:0512.60671914.72172.2212023/09/0808:12:0512.60671914.72172.2212023/09/0808:12:0512.60671914.72172.2352023/09/0808:18:0512.80671912.43772.2352023/09/0808:12:05<	2023/09/08	06:18:05	10.8067	2320.819	72.244
2023/09/0806:30:0511.00672321.89172.2432023/09/0806:36:0511.10672322.40072.2392023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.90672326.34972.2352023/09/0807:24:0511.90672326.78672.2212023/09/0807:30:0512.00672327.30072.2262023/09/0807:36:0512.10672327.70072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671914.75372.1802023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.60671918.23072.2352023/09/0808:12:0512.60671914.72172.2212023/09/0808:12:0512.60671914.72172.2212023/09/0808:12:0512.60671914.72172.2352023/09/0808:18:0512.80671912.43772.2352023/09/0808:12:05<	2023/09/08	06:24:05	10.9067	2321.314	72.243
2023/09/0806:36:0511.10672322.40072.2392023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2322023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672326.34972.2352023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.30671947.57372.1802023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2442023/09/0808:36:0513.10671908.33272.3152023/09/0808:36:0513.20671907.36572.3422023/09/0808:42:0513.20671905.12572.4082023/09/0808:60:05<		06:30:05	11.0067	2321.891	72.243
2023/09/0806:42:0511.20672322.93872.2372023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:12:0511.90672326.34972.2322023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672327.30072.2262023/09/0807:36:0512.10672327.77072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.1682023/09/0807:46:4112.30672158.10372.2052023/09/0807:48:0512.30671947.57372.1802023/09/0807:54:0512.60671918.23072.2032023/09/0808:00:0512.50671914.72172.2212023/09/0808:12:0512.70671914.72172.2242023/09/0808:30:0513.00671909.37172.2352023/09/0808:30:0513.00671908.33272.3152023/09/0808:36:0513.10671905.82972.3422023/09/0808:42:0513.20671907.36572.3422023/09/0808:36:0513.00671905.82972.3942023/09/0808:60:0513.6067		06:36:05	11.1067	2322.400	72.239
2023/09/0806:48:0511.30672323.41272.2342023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672326.34972.2352023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting. Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671914.72172.2212023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2352023/09/0808:30:0513.00671909.37172.2442023/09/0808:36:0513.10671905.82972.3422023/09/0808:36:0513.30671905.82972.3422023/09/0808:42:0513.30671905.12572.4082023/09/0809:06:05<					
2023/09/0806:54:0511.40672323.88972.2372023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672326.34972.2322023/09/0807:24:0511.90672326.78672.2212023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.1682023/09/0807:46:4112.80671947.57372.1802023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671914.72172.2212023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:30:0513.00671909.37172.2352023/09/0808:30:0513.00671907.36572.3422023/09/0808:32:0513.00671905.82972.3442023/09/0808:42:0513.30671905.82972.3422023/09/0808:54:0513.40671905.82972.3442023/09/0809:00:0513.6					
2023/09/0807:00:0511.50672324.43172.2352023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672325.80772.2322023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:36:0512.10672327.30072.223Stop injectingBegin Fall-Off Test2023/09/0807:42:0512.30672023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:5112.40671947.57372.1802023/09/0807:54:0512.40671947.57372.1892023/09/0808:00:0512.50671914.72172.2212023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:30:0513.00671909.37172.3152023/09/0808:36:0513.00671905.32972.3422023/09/0808:36:0513.00671905.82972.3442023/09/0808:42:0513.30671905.82972.3442023/09/0808:54:0513.40671905.82972.3442023/09/0809:06:0513.60671904.5					
2023/09/0807:06:0511.60672324.89572.2352023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672325.80772.2322023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:5112.40671947.57372.1802023/09/0807:54:0512.40671924.75372.1892023/09/0808:00:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:30:0513.00671909.37172.2352023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.82972.3942023/09/0808:64:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.428 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
2023/09/0807:12:0511.70672325.33972.2342023/09/0807:18:0511.80672325.80772.2322023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4512.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.1892023/09/0808:00:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.70671914.72172.2352023/09/0808:30:0513.00671909.37172.2442023/09/0808:30:0513.00671909.37172.2312023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.40671905.82972.3942023/09/0808:54:0513.40671905.12572.4082023/09/0809:00:0513.50671904.51872.4282023/09/0809:00:0513.50671904.51872.4282023					
2023/09/0807:18:0511.80672325.80772.2322023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0807:54:0512.60671918.23072.2032023/09/0808:00:0512.50671924.75372.1892023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.82972.3942023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:00:0513.60671904.51872.4282023/09/0809:01:0513.70671903.97072.446					
2023/09/0807:24:0511.90672326.34972.2352023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.8672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.1892023/09/0808:00:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:30:0513.00671909.37172.2352023/09/0808:42:0513.20671907.36572.3422023/09/0808:34:0513.30671905.82972.3942023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:01:0513.70671903.97072.446					
2023/09/0807:30:0512.00672326.78672.2212023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:0512.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671918.23072.2032023/09/0808:01:0512.60671918.23072.2212023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:30:0513.00671909.37172.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.82972.3942023/09/0808:54:0513.40671905.82972.3942023/09/0809:06:0513.60671904.51872.4282023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446					
2023/09/0807:36:0512.10672327.30072.2262023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:46:4112.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0807:54:0512.50671924.75372.2032023/09/0808:00:0512.50671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.82972.3942023/09/0808:54:0513.40671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446					
2023/09/0807:42:0512.20672327.77072.223Stop injecting.Begin Fall-Off Test2023/09/0807:46:4112.28332328.16872.2232023/09/0807:48:0512.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.2032023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.20671907.36572.3422023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.82972.3942023/09/0809:06:0513.60671904.51872.4282023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446				2327.300	
Stop injecting. Begin Fall-Off Test 2023/09/08 07:46:41 12.2833 2328.168 72.223 2023/09/08 07:48:05 12.3067 2158.103 72.205 2023/09/08 07:54:05 12.4067 1947.573 72.180 2023/09/08 07:54:05 12.4067 1947.573 72.180 2023/09/08 08:00:05 12.5067 1924.753 72.203 2023/09/08 08:06:05 12.6067 1918.230 72.203 2023/09/08 08:12:05 12.7067 1914.721 72.221 2023/09/08 08:18:05 12.8067 1912.437 72.235 2023/09/08 08:24:05 12.9067 1910.745 72.244 2023/09/08 08:30:05 13.0067 1909.371 72.271 2023/09/08 08:36:05 13.1067 1908.332 72.315 2023/09/08 08:42:05 13.2067 1907.365 72.342 2023/09/08 08:48:05 13.3067 1905.829 72.394 2023/09/08					
2023/09/0807:46:4112.28332328.16872.2232023/09/0807:48:0512.30672158.10372.2052023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.1892023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:12:0512.90671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:42:0513.30671905.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:01:0513.70671903.97072.446					
2023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.1892023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:54:0513.30671905.82972.3942023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08			2328.168	72.223
2023/09/0807:54:0512.40671947.57372.1802023/09/0808:00:0512.50671924.75372.1892023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:54:0513.30671905.82972.3942023/09/0809:06:0513.60671904.51872.4282023/09/0809:06:0513.60671903.97072.446	2023/09/08	07:48:05	12.3067	2158.103	72.205
2023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:36:0513.20671907.36572.3422023/09/0808:42:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:06:0513.60671903.97072.446	2023/09/08	07:54:05	12.4067	1947.573	
2023/09/0808:06:0512.60671918.23072.2032023/09/0808:12:0512.70671914.72172.2212023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:36:0513.20671907.36572.3422023/09/0808:42:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:06:0513.60671903.97072.446	2023/09/08	08:00:05	12.5067	1924.753	72.189
2023/09/0808:18:0512.80671912.43772.2352023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08	08:06:05	12.6067	1918.230	72.203
2023/09/0808:24:0512.90671910.74572.2442023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08	08:12:05	12.7067	1914.721	72.221
2023/09/0808:30:0513.00671909.37172.2712023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08	08:18:05	12.8067	1912.437	72.235
2023/09/0808:36:0513.10671908.33272.3152023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08	08:24:05	12.9067	1910.745	72.244
2023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446	2023/09/08	08:30:05	13.0067	1909.371	72.271
2023/09/0808:42:0513.20671907.36572.3422023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446		08:36:05			
2023/09/0808:48:0513.30671906.54972.3672023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446			13.2067	1907.365	72.342
2023/09/0808:54:0513.40671905.82972.3942023/09/0809:00:0513.50671905.12572.4082023/09/0809:06:0513.60671904.51872.4282023/09/0809:12:0513.70671903.97072.446					
2023/09/08 09:00:05 13.5067 1905.125 72.408 2023/09/08 09:06:05 13.6067 1904.518 72.428 2023/09/08 09:12:05 13.7067 1903.970 72.446					
2023/09/08 09:06:05 13.6067 1904.518 72.428 2023/09/08 09:12:05 13.7067 1903.970 72.446					
2023/09/08 09:12:05 13.7067 1903.970 72.446					
	2023/09/08	09:18:05	13.8067	1903.436	72.460

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2023/09/08	09:24:05	13.9067	1902.941	72.471
2023/09/08	09:30:05	14.0067	1902.506	72.502
2023/09/08	09:36:05	14.1067	1902.076	72.507
2023/09/08	09:42:05	14.2067	1901.683	72.520
2023/09/08	09:48:05	14.3067	1901.274	72.527
2023/09/08	09:54:05	14.4067	1900.911	72.540
2023/09/08	10:00:05	14.5067	1900.573	72.556
2023/09/08	10:06:05	14.6067	1900.240	72.568
2023/09/08	10:12:05	14.7067	1899.938	72.579
2023/09/08	10:18:05	14.8067	1899.637	72.592
2023/09/08	10:24:05	14.9067	1899.336	72.594
2023/09/08	10:30:05	15.0067	1899.091	72.612
2023/09/08	10:36:05	15.1067	1898.799	72.621
2023/09/08	10:42:05	15.2067	1898.555	72.630
2023/09/08	10:48:05	15.3067	1898.305	72.635
2023/09/08	10:54:05	15.4067	1898.083	72.649
2023/09/08	11:00:05	15.5067	1897.837	72.657
2023/09/08	11:06:05	15.6067	1897.592	72.657
2023/09/08	11:12:05	15.7067	1897.418	72.673
2023/09/08	11:12:05	15.8067	1897.213	72.678
2023/09/08	11:24:05	15.9067	1896.998	72.682
2023/09/08	11:30:05	16.0067	1896.808	72.691
2023/09/08	11:36:05	16.1067	1896.617	72.698
2023/09/08	11:42:05	16.2067	1896.435	72.700
2023/09/08	11:48:05	16.3067	1896.253	72.700
2023/09/08	11:54:05	16.4067	1896.052	72.711
2023/09/08	12:00:05	16.5067	1895.912	72.723
2023/09/08	12:06:05	16.6067	1895.732	72.730
2023/09/08	12:12:05	16.7067	1895.566	72.739
2023/09/08	12:18:05	16.8067	1895.424	72.748
2023/09/08	12:24:05	16.9067	1895.275	72.754
2023/09/08	12:30:05	17.0067	1895.117	72.759
2023/09/08	12:36:05	17.1067	1894.956	72.761
2023/09/08	12:42:05	17.2067	1894.810	72.770
2023/09/08	12:48:05	17.3067	1894.677	72.777
2023/09/08	12:54:05	17.4067	1894.522	72.779
2023/09/08	13:00:05	17.5067	1894.407	72.793
2023/09/08	13:06:05	17.6067	1894.288	72.797
2023/09/08	13:12:05	17.7067	1894.155	72.801
2023/09/08	13:18:05	17.8067	1894.005	72.806
2023/09/08	13:24:05	17.9067	1893.885	72.828
2023/09/08	13:30:05	18.0067	1893.773	72.855
2023/09/08	13:36:05	18.1067	1893.656	72.873
2023/09/08	13:42:05	18.2067	1893.538	72.885
2023/09/08	13:48:05	18.3067	1893.422	72.907
2023/09/08	13:54:05	18.4067	1893.306	72.916
2023/09/08	14:00:05	18.5067	1893.178	72.928
2023/09/08	14:06:05	18.6067	1893.078	72.939
2023/09/08	14:12:05	18.7067	1892.971	72.945
2023/09/08	14:18:05	18.8067	1892.858	72.948



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2023/09/08	14:24:05	18.9067	1892.758	72.954
2023/09/08	14:30:05	19.0067	1892.660	72.957
2023/09/08	14:36:05	19.1067	1892.573	72.972
2023/09/08	14:42:05	19.2067	1892.447	72.979
2023/09/08	14:48:05	19.3067	1892.351	72.999
2023/09/08	14:54:05	19.4067	1892.239	72.995
2023/09/08	15:00:05	19.5067	1892.172	73.006
2023/09/08	15:06:05	19.6067	1892.055	73.013
2023/09/08	15:12:05	19.7067	1891.977	73.020
2023/09/08	15:18:05	19.8067	1891.873	73.029
2023/09/08	15:24:05	19.9067	1891.768	73.036
2023/09/08	15:30:05	20.0067	1891.680	73.053
2023/09/08	15:36:05	20.1067	1891.612	73.062
2023/09/08	15:42:05	20.2067	1891.516	73.080
2023/09/08	15:48:05	20.3067	1891.403	73.085
2023/09/08	15:54:05	20.4067	1891.344	73.117
2023/09/08	16:00:05	20.4007	1891.259	73.125
2023/09/08	16:06:05	20.6067	1891.172	73.132
2023/09/08	16:12:05	20.7067	1891.085	73.137
2023/09/08	16:12:05	20.8067	1891.003	73.134
2023/09/08	16:24:05	20.9067	1890.907	73.134
2023/09/08	16:30:05	20.9007	1890.835	73.137
2023/09/08	16:36:05	21.1067	1890.769	73.137
2023/09/08	16:42:05	21.2067	1890.692	73.135
2023/09/08	16:48:05	21.3067	1890.612	73.137
2023/09/08	16:54:05	21.4067	1890.533	73.150
2023/09/08	17:00:05	21.5067	1890.432	73.159
2023/09/08	17:06:05	21.6067	1890.399	73.179
2023/09/08	17:12:05	21.7067	1890.297	73.175
2023/09/08	17:18:05	21.8067	1890.214	73.186
2023/09/08	17:24:05	21.9067	1890.148	73.186
2023/09/08	17:30:05	22.0067	1890.090	73.197
2023/09/08	17:36:05	22.1067	1890.000	73.200
2023/09/08	17:42:05	22.2067	1889.935	73.200
2023/09/08	17:48:05	22.3067	1889.876	73.215
2023/09/08	17:54:05	22.4067	1889.774	73.209
2023/09/08	18:00:05	22.5067	1889.707	73.209
2023/09/08	18:06:05	22.6067	1889.635	73.218
2023/09/08	18:12:05	22.7067	1889.590	73.222
2023/09/08	18:18:05	22.8067	1889.509	73.240
2023/09/08	18:24:05	22.9067	1889.438	73.252
2023/09/08	18:30:05	23.0067	1889.382	73.252
2023/09/08	18:36:05	23.1067	1889.303	73.252
2023/09/08	18:42:05	23.2067	1889.224	73.258
2023/09/08	18:48:05	23.3067	1889.184	73.265
2023/09/08	18:54:05	23.4067	1889.133	73.260
2023/09/08	19:00:05	23.5067	1889.042	73.251
2023/09/08	19:06:05	23.6067	1888.998	73.256
2023/09/08	19:12:05	23.7067	1888.938	73.263
2023/09/08	19:18:05	23.8067	1888.874	73.260

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2023/09/08	19:24:05	23.9067	1888.795	73.249
2023/09/08	19:30:05	24.0067	1888.718	73.245
2023/09/08	19:36:05	24.1067	1888.660	73.242
2023/09/08	19:42:05	24.2067	1888.594	73.254
2023/09/08	19:48:05	24.3067	1888.541	73.270
2023/09/08	19:54:05	24.4067	1888.475	73.281
2023/09/08	20:00:05	24.5067	1888.432	73.292
2023/09/08	20:06:05	24.6067	1888.369	73.294
2023/09/08	20:12:05	24.7067	1888.297	73.292
2023/09/08	20:18:05	24.8067	1888.268	73.301
2023/09/08	20:24:05	24.9067	1888.199	73.297
2023/09/08	20:30:05	25.0067	1888.150	73.292
2023/09/08	20:36:05	25.1067	1888.074	73.285
2023/09/08	20:42:05	25.2067	1888.033	73.292
2023/09/08	20:48:05	25.3067	1887.963	73.292
2023/09/08	20:54:05	25.4067	1887.906	73.290
2023/09/08	21:00:05	25.5067	1887.845	73.301
2023/09/08	21:06:05	25.6067	1887.803	73.306
2023/09/08	21:12:05	25.7067	1887.747	73.324
2023/09/08	21:12:00	25.8067	1887.691	73.330
2023/09/08	21:24:05	25.9067	1887.640	73.333
2023/09/08	21:24:05	26.0067	1887.574	73.333
2023/09/08	21:36:05	26.1067	1887.534	73.344
2023/09/08	21:42:05	26.2067	1887.488	73.359
2023/09/08	21:42:05	26.3067	1887.417	73.344
2023/09/08	21:54:05	26.4067	1887.372	73.342
2023/09/08	21:04:05	26.5067	1887.326	73.337
2023/09/08	22:00:05	26.6067	1887.293	73.350
2023/09/08	22:00:05	26.7067	1887.221	73.344
2023/09/08	22:12:05	26.8067	1887.201	73.357
2023/09/08	22:18:05	26.9067	1887.120	73.353
2023/09/08	22:24:05	27.0067	1887.066	73.357
2023/09/08	22:30:05	27.0007	1887.039	73.353
2023/09/08	22:30:05	27.1007	1886.968	73.357
		27.3067	1886.909	
2023/09/08	22:48:05			73.359
2023/09/08	22:54:05	27.4067	1886.865	73.371
	23:00:05 23:06:05	27.5067	1886.802	
2023/09/08		27.6067	1886.774	73.378
2023/09/08	23:12:05	27.7067	1886.735	73.386
2023/09/08	23:18:05	27.8067	1886.658	73.380
2023/09/08	23:24:05	27.9067	1886.616	73.380
2023/09/08	23:30:05	28.0067	1886.574	73.382
2023/09/08	23:36:05	28.1067	1886.523	73.389
2023/09/08	23:42:05	28.2067	1886.472	73.395
2023/09/08	23:48:05	28.3067	1886.430	73.402
2023/09/08	23:54:05	28.4067	1886.354	73.405
2023/09/09	00:00:05	28.5067	1886.331	73.416
2023/09/09	00:06:05	28.6067	1886.271	73.420
2023/09/09	00:12:05	28.7067	1886.234	73.423
2023/09/09	00:18:05	28.8067	1886.178	73.425



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2023/09/09	00:24:05	28.9067	1886.129	73.422
2023/09/09	00:30:05	29.0067	1886.091	73.427
2023/09/09	00:36:05	29.1067	1886.022	73.425
2023/09/09	00:42:05	29.2067	1885.970	73.422
2023/09/09	00:48:05	29.3067	1885.920	73.411
2023/09/09	00:54:05	29.4067	1885.900	73.420
2023/09/09	01:00:05	29.5067	1885.831	73.413
2023/09/09	01:06:05	29.6067	1885.802	73.422
2023/09/09	01:12:05	29.7067	1885.742	73.420
2023/09/09	01:18:05	29.8067	1885.680	73.423
2023/09/09	01:24:05	29.9067	1885.646	73.431
2023/09/09	01:30:05	30.0067	1885.590	73.431
2023/09/09	01:36:05	30.1067	1885.536	73.432
2023/09/09	01:42:05	30.2067	1885.475	73.436
2023/09/09	01:48:05	30.3067	1885.438	73.425
2023/09/09	01:54:05	30.4067	1885.399	73.431
2023/09/09	02:00:05	30.5067	1885.335	73.432
2023/09/09	02:06:05	30.6067	1885.304	73.459
2023/09/09	02:00:00	30.7067	1885.240	73.467
2023/09/09	02:12:05	30.8067	1885.198	73.470
2023/09/09	02:10:05	30.9067	1885.150	73.470
2023/09/09	02:24:05	31.0067	1885.119	73.479
2023/09/09	02:30:05	31.1067	1885.062	73.475
2023/09/09	02:30:03	31.2067	1885.024	73.481
		31.3067		
2023/09/09	02:48:05		1884.964	73.472
2023/09/09	02:54:05	31.4067	1884.910	73.463
2023/09/09	03:00:05	31.5067	1884.856	73.458
2023/09/09	03:06:05	31.6067	1884.801	73.450
2023/09/09	03:12:05	31.7067	1884.750	73.443
2023/09/09	03:18:05	31.8067	1884.725	73.454
2023/09/09	03:24:05	31.9067	1884.682	73.452
2023/09/09	03:30:05	32.0067	1884.606	73.450
2023/09/09	03:36:05	32.1067	1884.575	73.456
2023/09/09	03:42:05	32.2067	1884.522	73.456
2023/09/09	03:48:05	32.3067	1884.498	73.450
2023/09/09	03:54:05	32.4067	1884.435	73.458
2023/09/09	04:00:05	32.5067	1884.395	73.465
2023/09/09	04:06:05	32.6067	1884.333	73.465
2023/09/09	04:12:05	32.7067	1884.296	73.490
2023/09/09	04:18:05	32.8067	1884.236	73.497
2023/09/09	04:24:05	32.9067	1884.189	73.501
2023/09/09	04:30:05	33.0067	1884.151	73.495
2023/09/09	04:36:05	33.1067	1884.094	73.490
2023/09/09	04:42:05	33.2067	1884.060	73.488
2023/09/09	04:48:05	33.3067	1883.994	73.485
2023/09/09	04:54:05	33.4067	1883.958	73.497
2023/09/09	05:00:05	33.5067	1883.906	73.494
2023/09/09	05:06:05	33.6067	1883.860	73.497
2023/09/09	05:12:05	33.7067	1883.810	73.512
2023/09/09	05:18:05	33.8067	1883.772	73.512

Date	Time	Cum.Time	BH Pres 1	BH Temp
Dale		BH1	DITFIEST	1
		hr	psig	deg F
2023/09/09	05:24:05	33.9067	1883.748	73.513
2023/09/09	05:30:05	34.0067	1883.669	73.501
2023/09/09	05:36:05	34.1067	1883.621	73.497
2023/09/09	05:42:05	34.2067	1883.567	73.492
2023/09/09	05:48:05	34.3067	1883.527	73.495
2023/09/09	05:54:05	34.4067	1883.488	73.497
2023/09/09	06:00:05	34.5067	1883.428	73.488
2023/09/09	06:06:05	34.6067	1883.387	73.483
2023/09/09	06:12:05	34.7067	1883.338	73.492
2023/09/09	06:18:05	34.8067	1883.308	73.508
2023/09/09	06:24:05	34.9067	1883.240	73.513
2023/09/09	06:30:05	35.0067	1883.206	73.524
2023/09/09	06:36:05	35.1067	1883.154	73.528
2023/09/09	06:42:05	35.2067	1883.123	73.526
2023/09/09	06:48:05	35.3067	1883.066	73.526
2023/09/09	06:54:05	35.4067	1883.023	73.528
POOH Gradi	ent: 4080.0	000 ft		
2023/09/09	07:00:02	35.5058	1882.981	73.524
End of Fall-C	Off Test.			
2023/09/09	07:00:05	35.5067	1882.981	73.522
Prepare to P.	.O.O.H. wit	h gauges		
2023/09/09	07:00:08	35.5075	1882.987	73.526
P.O.O.H. ma	king gradie	nt stops		
2023/09/09	07:03:53	35.5700	1882.963	73.539
Stop at 4000	feet			
2023/09/09	07:04:38	35.5825	1848.179	74.210
2023/09/09	07:06:05	35.6067	1847.517	76.600
POOH Gradi	ent: 4000.0	000 ft		
2023/09/09	07:09:35	35.6650	1848.035	77.860
2023/09/09	07:12:05	35.7067	1690.427	78.292
Stop at 3000	feet			
2023/09/09	07:14:56	35.7542	1423.203	74.455
2023/09/09	07:18:05	35.8067	1423.123	73.069
POOH Gradi	ent: 3000.0	000 ft		
2023/09/09	07:19:59	35.8383	1423.099	72.849
2023/09/09	07:24:05	35.9067	1018.476	65.277
Stop at 2000	feet			
2023/09/09	07:24:32	35.9142	1011.575	64.441
POOH Gradi				
2023/09/09	07:29:29	35.9967	1011.217	63.127
2023/09/09	07:30:05	36.0067	995.349	63.082
Stop at 1000				
2023/09/09	07:32:50	36.0525	579.141	60.332
2023/09/09	07:36:05	36.1067	579.267	59.353
POOH Gradi				
2023/09/09	07:37:59	36.1383	579.237	59.256
2023/09/09	07:42:05	36.2067	178.819	58.316
Stop in lubric				
2023/09/09	07:43:50	36.2358	145.145	62.296
2023/09/09	07:48:05	36.3067	145.291	62.265



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
POOH Gradi	ent: 0.000	ft		
2023/09/09	07:48:50	36.3192	145.300	62.233
Bleed-Off Lu	bricator			
2023/09/09	07:52:47	36.3850	145.752	62.152
2023/09/09	07:54:05	36.4067	1.464	62.098
2023/09/09	08:00:05	36.5067	1.487	62.112
2023/09/09	08:06:05	36.6067	1.467	62.062
2023/09/09	08:12:05	36.7067	1.554	62.218
2023/09/09	08:18:05	36.8067	1.477	62.503
2023/09/09	08:24:05	36.9067	1.509	62.739

APPENDIX J

EPA PRESSURE FALLOFF TEST FORM



BACKGROUND INFORMATION FOR ANA	LYSIS OF PRESSURE	FALL-OFF TEST
LITY NAME	OPERATOR	
L NAME	USEPA PERMIT NUMBER	STATE PERMIT NUMBER
T START DATE TEST END DATE	Depth Reference: Kelly Bushing □	Ground Level □
GEOLOGIC	AL DATA	
OSITY, decimal NET PERMEABLE THICKNESS, ft.	VISCOSITY, cp.	COMPRESSIBILITY, per psi
WELL AND OPE	RATION DATA	
SSTRING CASING DIAMETER, in FINAL PRETEST FLOW RATE, gpm	INJECTATE TEMPERATURE, deg.F	KB ELEVATION, ft
N HOLE DIAMTER, ins PRETEST FLOW TIME, hrs. SEE BELOW	SPECIFIC GRAVITY OF TEST FLUID	TEST DEPTH FOR COMPARISON, ft
GE DEPTH, ft	CUMULATIVE VOLUME INJECTED SII	NCE LAST PRESSURE EQUALIZATION,
TEST		
GE CALIBRATION DATE		
N RATE, gpm PRESSURE AT BEGINNING OF FALL-OFF,	p PRESSURE AT END OF FALL-OFF, ps	STO SUPPORT FULL COLUMN, psi
LENGTH, hrs. INITIAL GRADIENT, psi/ft.	FINAL GRADIENT, psi/ft.	FINAL FLUID LEVEL, ft.
REMEN	IBER	
re-test flow time" is the time since the reser e time since the well was last shut-in but on e pressure in the reservoir to approach equi	ly if the well was shut	-
Please fill in the above cells. Injection of normal injectate at normal rate is prefe Submit an up-to-date well schematic. The well should be shut-in as quickly as possible. Data should be collected at the maximum rate for a rty minutes at no less than one reading every 30 se	at least the first five minut	-
The pressure gauge should have been calibrated no the calibration certificate for the gauge used for pro The report on the test must explain any anomalies Submit digital logging data on a CD in .las or .asc f	essure measurements wit shown in the results.	
Data should be collected at the maximum rate for a rty minutes at no less than one reading every 30 se luce frequency as required. The pressure gauge should have been calibrated no the calibration certificate for the gauge used for pro The report on the test must explain any anomalies	econds. After thirty minut o more than a year prior to essure measurements wit shown in the results.	es, o th

APPENDIX K

STATIC PRESSURE GRADIENT SURVEY (ABRIDGED)



	Well Name:		Pressure	Gradien	i Surve	Job Number:	102128AD	
Oper	ating Company:	Republic Inc	lustrial and Energ	y Solutions, LL	С	WSP Rep.:	Jeffry Tahtouh	
		J.O. Well Se	ervice & Testing, I	nc.	-	Data End:	9/9/23 07:03:0 9/9/23 07:48:5	
Downhole	Data Recorder:	-	al No. 91874	1		ta Interval (secs):	15	
Date/Time	Pressure, psig	Temperature, °F	Date/Time	Pressure, psig	Temperature, °F	Date/Time	Pressure, psig	Temperatur °F
9/9/23 07:03:05	1882.966	73.532	9/9/23 07:19:20	1423.082	72.909	9/9/23 07:35:35	579.255	59.400
9/9/23 07:03:20	1882.944	73.528	9/9/23 07:19:35	1423.129	72.884	9/9/23 07:35:50	579.277	59.373
9/9/23 07:03:35	1882.967	73.534	9/9/23 07:19:50	1423.115	72.866	9/9/23 07:36:05	579.267	59.352
9/9/23 07:03:50 9/9/23 07:04:05	1882.951 1879.436	73.531 73.532	9/9/23 07:20:05	1423.093 1423.076	72.839 72.817	9/9/23 07:36:20	579.262 579.257	59.339 59.326
9/9/23 07:04:05	1864.807	73.586	9/9/23 07:20:20 9/9/23 07:20:35	1423.076	72.794	9/9/23 07:36:35 9/9/23 07:36:50	579.256	59.320
9/9/23 07:04:35	1849.586	74.061	9/9/23 07:20:50	1410.007	72.791	9/9/23 07:37:05	579.246	59.297
9/9/23 07:04:50	1847.720	74.825	9/9/23 07:21:05	1381.767	72.664	9/9/23 07:37:20	579.246	59.291
9/9/23 07:05:05	1847.421	75.422	9/9/23 07:21:20	1354.266	72.369	9/9/23 07:37:35	579.244	59.271
9/9/23 07:05:20	1847.417	75.844	9/9/23 07:21:35	1325.178	71.915	9/9/23 07:37:50	579.249	59.265
9/9/23 07:05:35	1847.437	76.165	9/9/23 07:21:50	1293.849	71.357	9/9/23 07:38:05	579.245	59.254
9/9/23 07:05:50	1847.485	76.406	9/9/23 07:22:05	1262.489	70.727	9/9/23 07:38:20	579.258	59.243
9/9/23 07:06:05	1847.517	76.600	9/9/23 07:22:20	1233.027	70.080	9/9/23 07:38:35	565.961	59.234
9/9/23 07:06:20 9/9/23 07:06:35	1847.705 1847.753	76.777	9/9/23 07:22:35	1203.347	69.431	9/9/23 07:38:50	542.479	59.173 59.131
9/9/23 07:06:35 9/9/23 07:06:50	1847.753	76.924 77.052	9/9/23 07:22:50 9/9/23 07:23:05	1173.290 1141.807	68.772 68.055	9/9/23 07:39:05 9/9/23 07:39:20	511.376 478.822	59.131
9/9/23 07:07:05	1847.906	77.160	9/9/23 07:23:05	1109.243	67.362	9/9/23 07:39:20	478.822	59.139
9/9/23 07:07:20	1847.901	77.265	9/9/23 07:23:35	1076.064	66.614	9/9/23 07:39:50	413.761	58.891
9/9/23 07:07:35	1847.883	77.356	9/9/23 07:23:50	1043.027	65.899	9/9/23 07:40:05	382.731	58.687
9/9/23 07:07:50	1847.884	77.438	9/9/23 07:24:05	1018.476	65.276	9/9/23 07:40:20	351.652	58.437
9/9/23 07:08:05	1847.947	77.514	9/9/23 07:24:20	1011.022	64.750	9/9/23 07:40:35	320.303	58.129
9/9/23 07:08:20	1847.939	77.585	9/9/23 07:24:35	1011.498	64.374	9/9/23 07:40:50	288.031	57.941
9/9/23 07:08:35	1848.002	77.648	9/9/23 07:24:50	1011.459	64.108	9/9/23 07:41:05	256.863	57.933
9/9/23 07:08:50	1848.061	77.713	9/9/23 07:25:05	1011.405	63.920	9/9/23 07:41:20	234.592	57.892
9/9/23 07:09:05	1848.021	77.763	9/9/23 07:25:20	1011.488	63.782	9/9/23 07:41:35	213.123	57.870
9/9/23 07:09:20	1847.990	77.812	9/9/23 07:25:35	1011.373	63.676	9/9/23 07:41:50	192.059	57.978
9/9/23 07:09:35	1848.035	77.860	9/9/23 07:25:50	1011.377	63.590	9/9/23 07:42:05	178.819	58.316
9/9/23 07:09:50	1848.032	77.903	9/9/23 07:26:05	1011.316	63.523	9/9/23 07:42:20	167.853	58.956
9/9/23 07:10:05 9/9/23 07:10:20	1848.002 1848.044	77.942 77.983	9/9/23 07:26:20 9/9/23 07:26:35	1011.270 1011.264	63.468 63.426	9/9/23 07:42:35 9/9/23 07:42:50	159.903 153.759	59.642 60.349
9/9/23 07:10:35	1843.908	78.013	9/9/23 07:26:50	1011.243	63.389	9/9/23 07:42:05	149.352	61.153
9/9/23 07:10:50	1830.444	78.099	9/9/23 07:27:05	1011.240	63.344	9/9/23 07:43:20	146.251	61.820
9/9/23 07:11:05	1808.126	78.221	9/9/23 07:27:20	1011.238	63.315	9/9/23 07:43:35	145.168	62.166
9/9/23 07:11:20	1779.559	78.306	9/9/23 07:27:35	1011.239	63.292	9/9/23 07:43:50	145.145	62.296
9/9/23 07:11:35	1750.744	78.328	9/9/23 07:27:50	1011.226	63.265	9/9/23 07:44:05	145.147	62.358
9/9/23 07:11:50	1720.881	78.340	9/9/23 07:28:05	1011.220	63.240	9/9/23 07:44:20	145.166	62.386
9/9/23 07:12:05	1690.427	78.292	9/9/23 07:28:20	1011.211	63.216	9/9/23 07:44:35	145.183	62.396
9/9/23 07:12:20	1667.328	78.137	9/9/23 07:28:35	1011.205	63.195	9/9/23 07:44:50	145.199	62.399
9/9/23 07:12:35	1643.836	77.884	9/9/23 07:28:50	1011.206	63.175	9/9/23 07:45:05	145.219	62.392
9/9/23 07:12:50	1619.055	77.576	9/9/23 07:29:05	1011.241	63.161	9/9/23 07:45:20	145.238	62.385
9/9/23 07:13:05	1592.293	77.231	9/9/23 07:29:20	1011.222	63.142	9/9/23 07:45:35	145.245	62.370
9/9/23 07:13:20 9/9/23 07:13:35	1563.301 1534.594	76.858 76.475	9/9/23 07:29:35 9/9/23 07:29:50	1011.223 1011.219	63.126 63.107	9/9/23 07:45:50 9/9/23 07:46:05	145.264 145.264	62.362 62.361
9/9/23 07:13:35	1534.594	76.475	9/9/23 07:29:50	995.349	63.082	9/9/23 07:46:05	145.264	62.361
9/9/23 07:14:05	1475.459	75.750	9/9/23 07:30:05	962.328	63.082	9/9/23 07:46:35	145.281	62.341
9/9/23 07:14:20	1450.877	75.388	9/9/23 07:30:35	926.267	62.967	9/9/23 07:46:50	145.276	62.321
9/9/23 07:14:35	1430.306	75.020	9/9/23 07:30:50	887.496	62.806	9/9/23 07:47:05	145.279	62.306
9/9/23 07:14:50	1423.363	74.612	9/9/23 07:31:05	846.999	62.558	9/9/23 07:47:20	145.282	62.290
9/9/23 07:15:05	1423.356	74.263	9/9/23 07:31:20	805.136	62.276	9/9/23 07:47:35	145.281	62.288
9/9/23 07:15:20	1423.330	74.008	9/9/23 07:31:35	763.229	62.016	9/9/23 07:47:50	145.279	62.269
9/9/23 07:15:35	1423.413	73.823	9/9/23 07:31:50	721.603	61.818	9/9/23 07:48:05	145.291	62.265
9/9/23 07:15:50	1423.322	73.681	9/9/23 07:32:05	678.895	61.495	9/9/23 07:48:20	145.298	62.251
9/9/23 07:16:05	1423.289	73.566	9/9/23 07:32:20	635.093	61.104	9/9/23 07:48:35	145.305	62.244
9/9/23 07:16:20	1423.271	73.466	9/9/23 07:32:35	595.676	60.696	9/9/23 07:48:50	145.300	62.233
9/9/23 07:16:35	1423.185	73.389	9/9/23 07:32:50	579.141	60.333			
9/9/23 07:16:50 9/9/23 07:17:05	1423.216 1423.219	73.321 73.258	9/9/23 07:33:05 9/9/23 07:33:20	579.120 579.228	60.060 59.878			-
9/9/23 07:17:05	1423.161	73.258	9/9/23 07:33:20	579.228	59.878			
9/9/23 07:17:35	1423.237	73.155	9/9/23 07:33:50	579.186	59.665			1
9/9/23 07:17:50	1423.164	73.133	9/9/23 07:34:05	579.253	59.602			1
9/9/23 07:18:05	1423.123	73.070	9/9/23 07:34:20	579.224	59.541			1
9/9/23 07:18:20	1423.193	73.032	9/9/23 07:34:35	579.213	59.500			1
9/9/23 07:18:35	1423.140	72.996	9/9/23 07:34:50	579.258	59.465			
9/9/23 07:18:50	1423.132	72.972	9/9/23 07:35:05	579.254	59.435			
9/9/23 07:19:05	1423.097	72.940	9/9/23 07:35:20	579.256	59.415			1

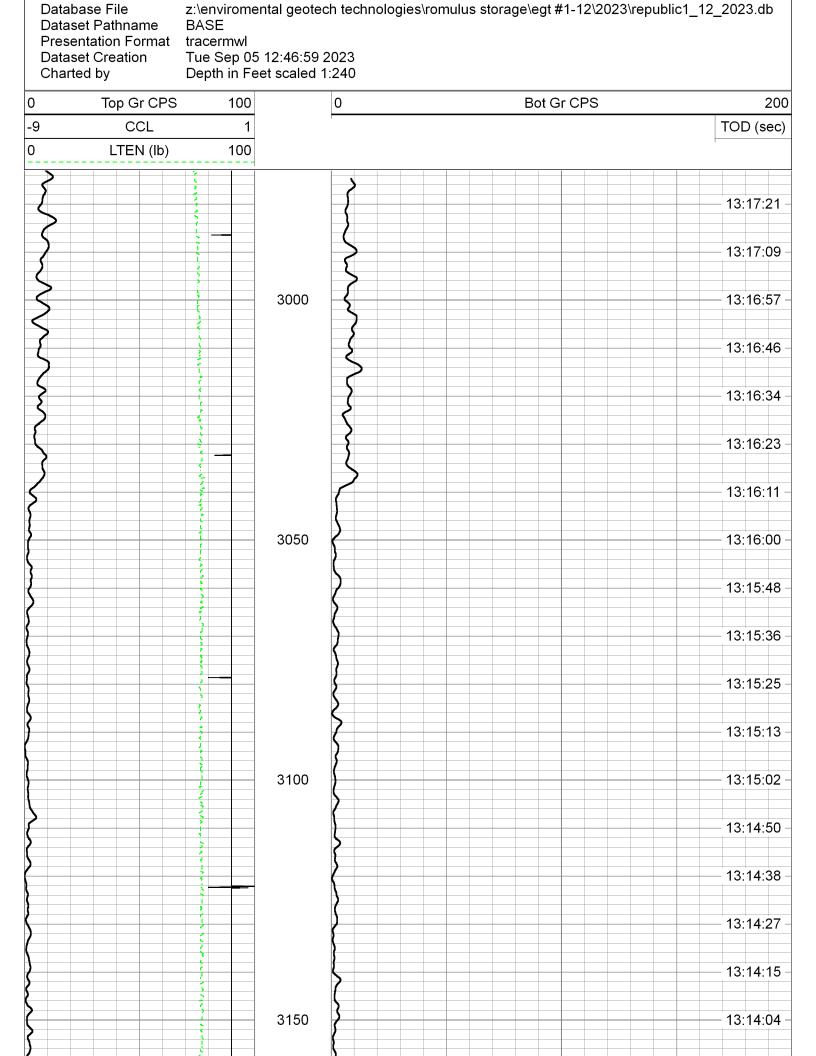
EXHIBITS

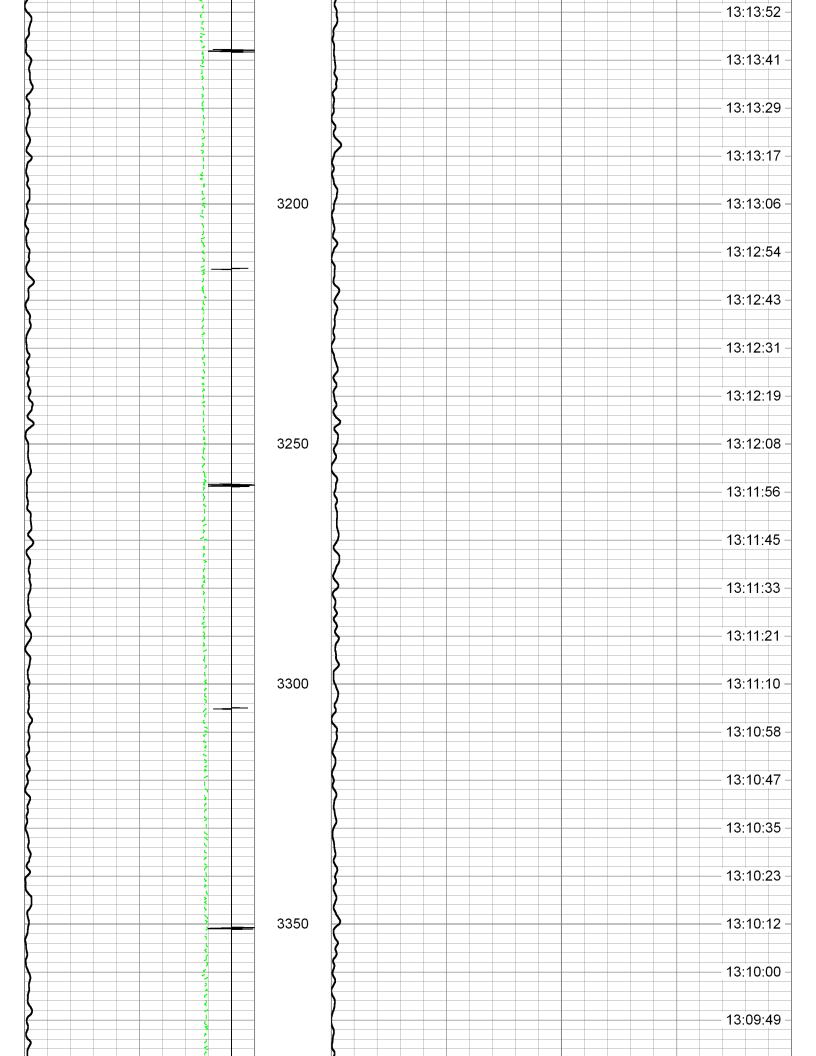


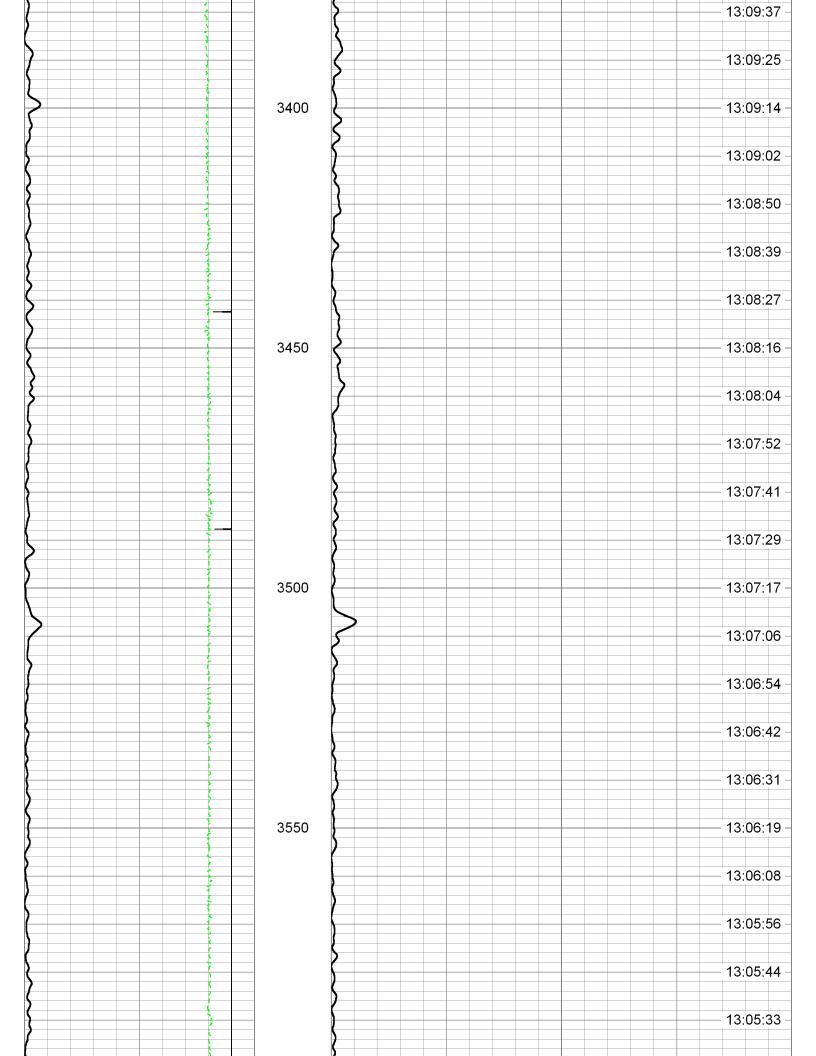
any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damage
Image: State of the state
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correct any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are subject to our general terms and conditions set out in our current Price Schedule. Comments THIS LOG IS CORRELATED TO MICHIGAN WIRELINE NUCLEAR TRACER LOG DATED 08/17/2022 2" COLLAR BOWEN 4 SECOND EJECTION.
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correct any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are subject to our general terms and conditions set out in our current Price Schedule. Comments THIS LOG IS CORRELATED TO MICHIGAN WIRELINE NUCLEAR TRACER LOG DATED 08/17/2022 2" COLLAR BOWEN 4 SECOND EJECTION.
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correct any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are subject to our general terms and conditions set out in our current Price Schedule. Comments THIS LOG IS CORRELATED TO MICHIGAN WIRELINE NUCLEAR TRACER LOG DATED 08/17/2022 2" COLLAR BOWEN 4 SECOND EJECTION.
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correct any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are subject to our general terms and conditions set out in our current Price Schedule. Comments THIS LOG IS CORRELATED TO MICHIGAN WIRELINE NUCLEAR TRACER LOG DATED 08/17/2022 2'' COLLAR BOWEN 4 SECOND EJECTION.
NUCLEAR TRACER LOG DATED 08/17/2022 2'' COLLAR BOWEN 4 SECOND EJECTION.
BOWEN 4 SECOND EJECTION.
THANK YOU FOR USING MICHIGAN WIRELINE

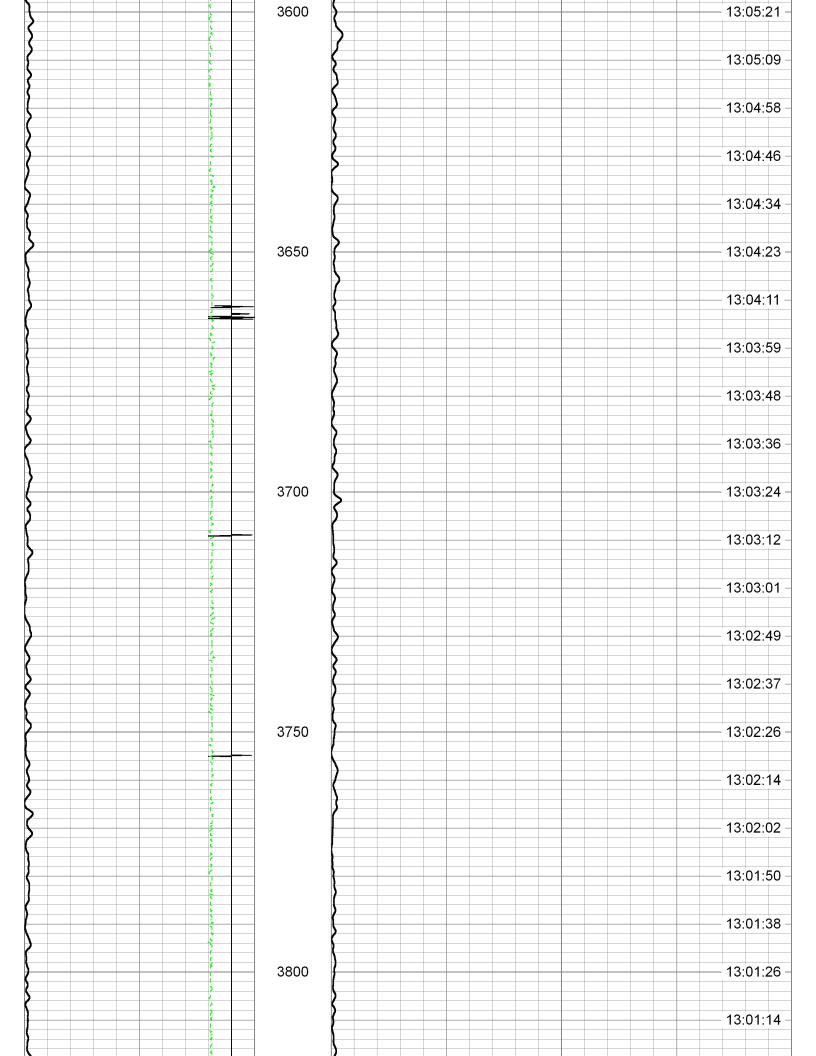
michigan wireline services

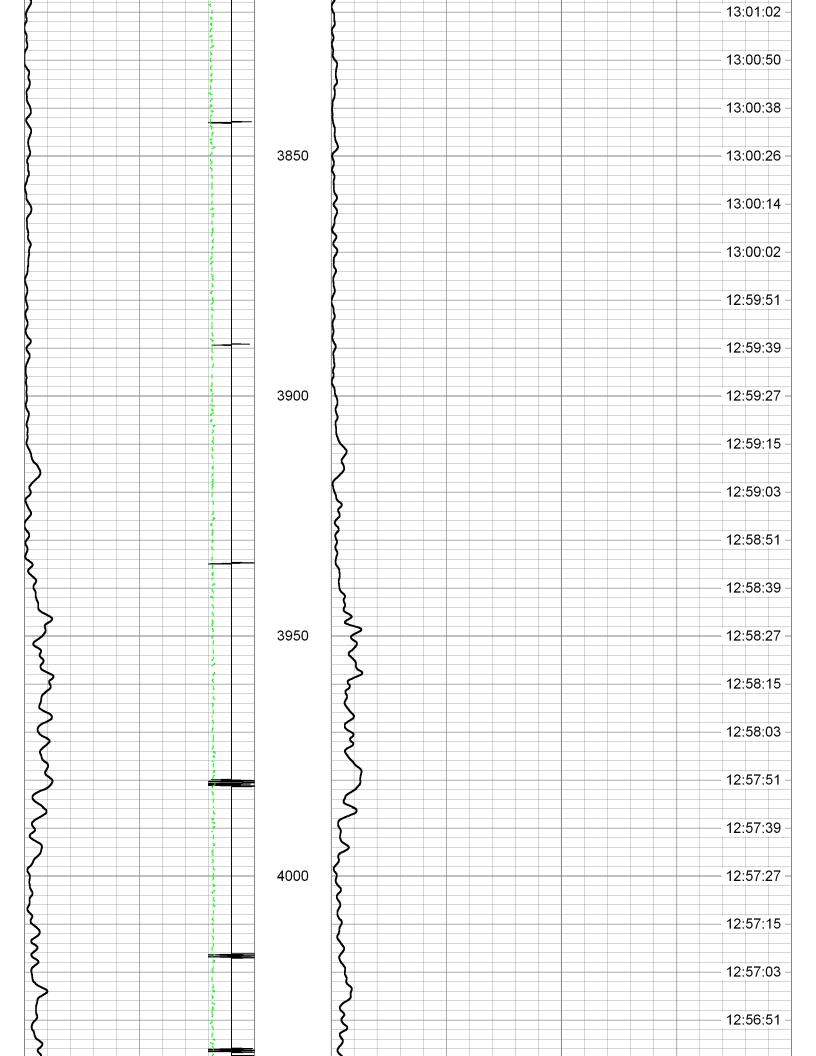
BASE PASS

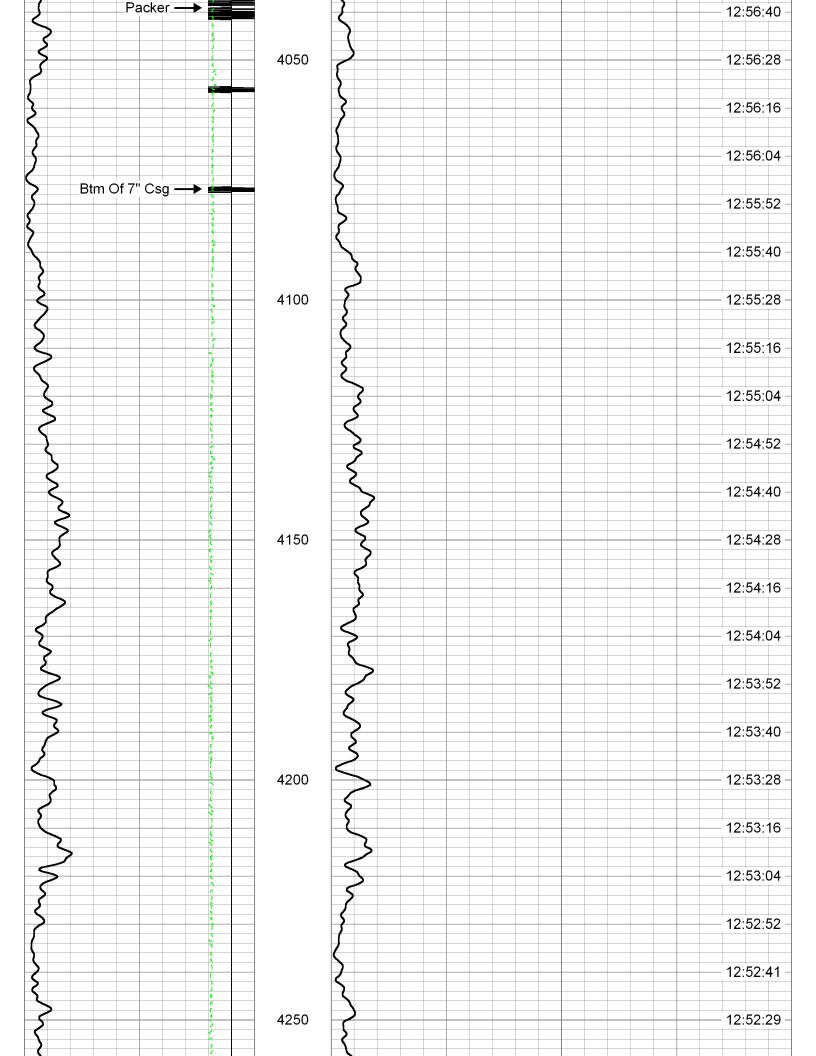


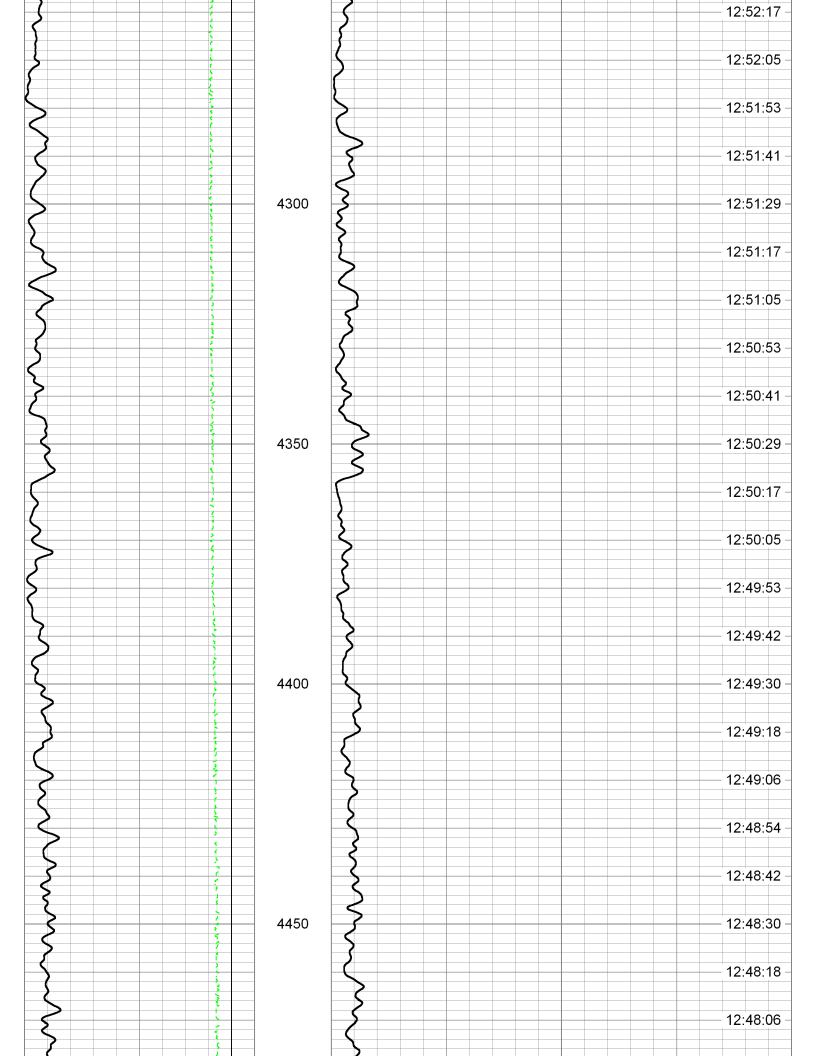


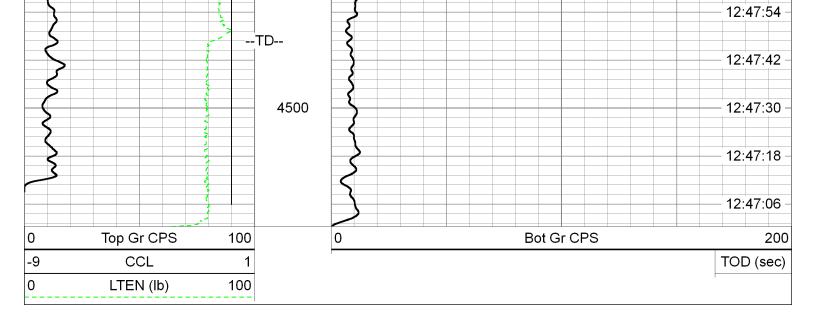


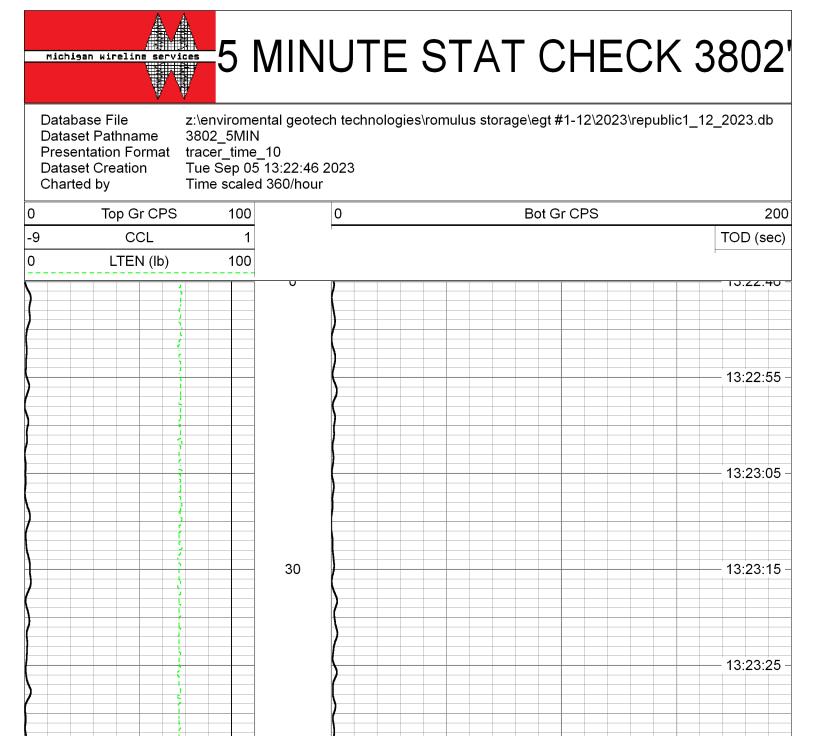


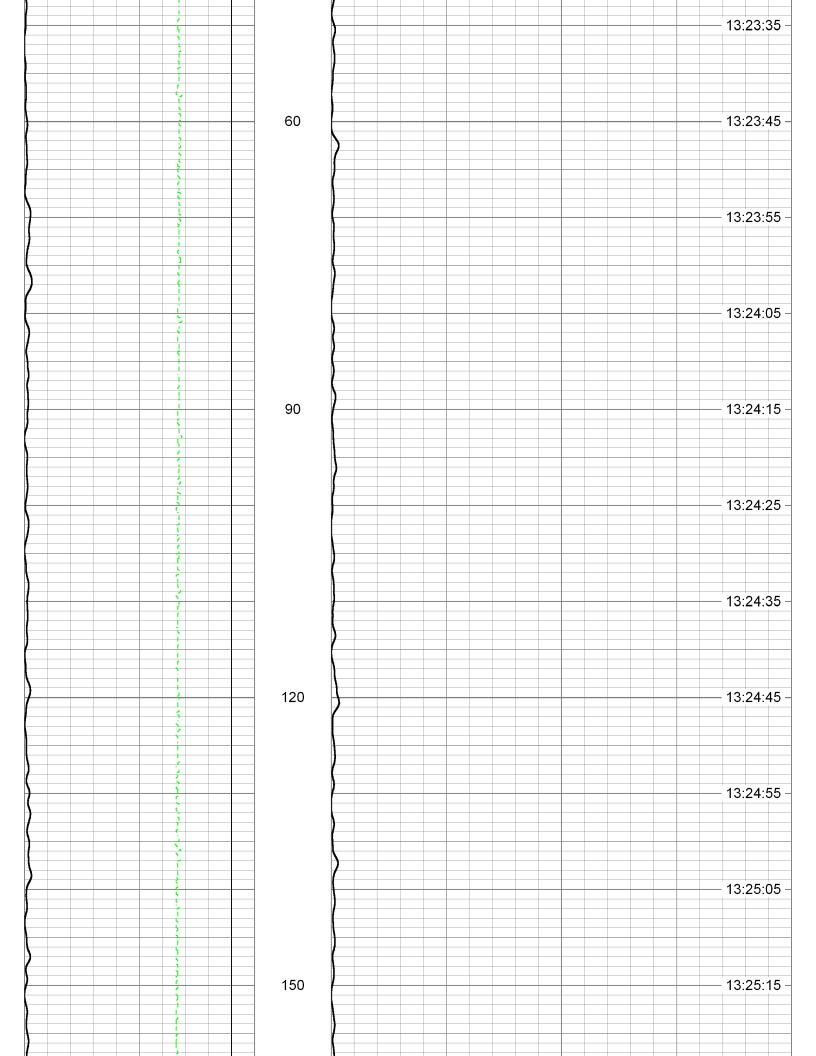


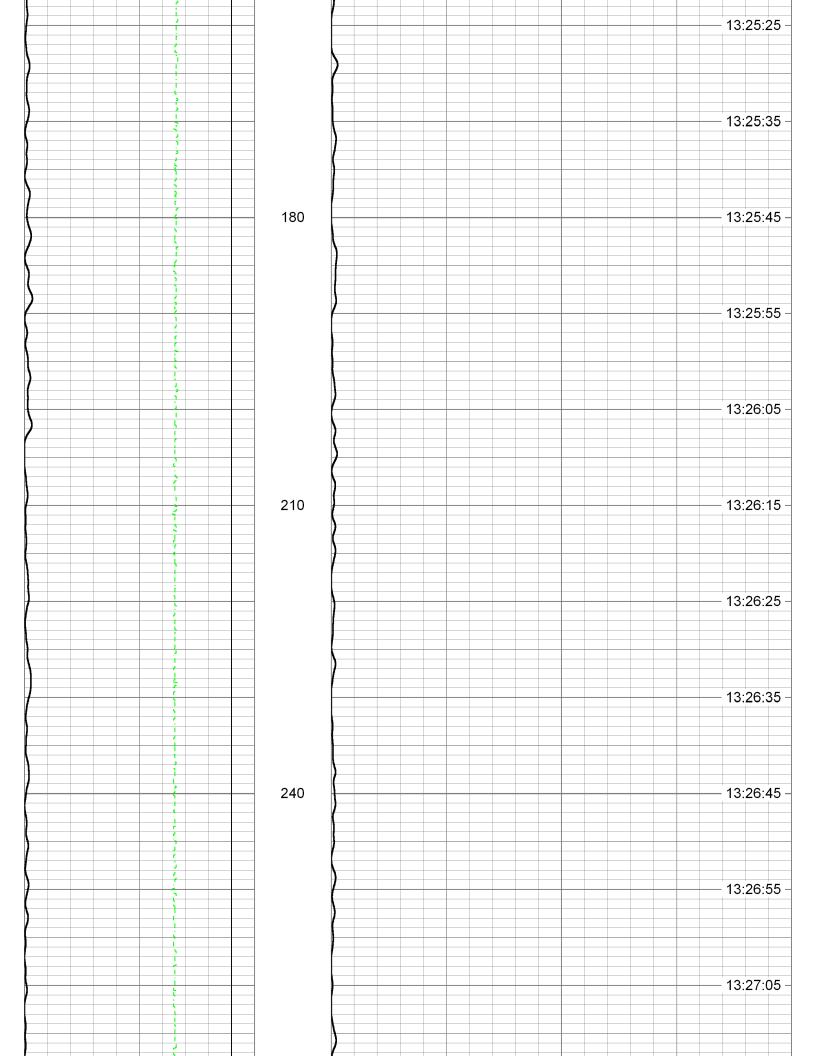


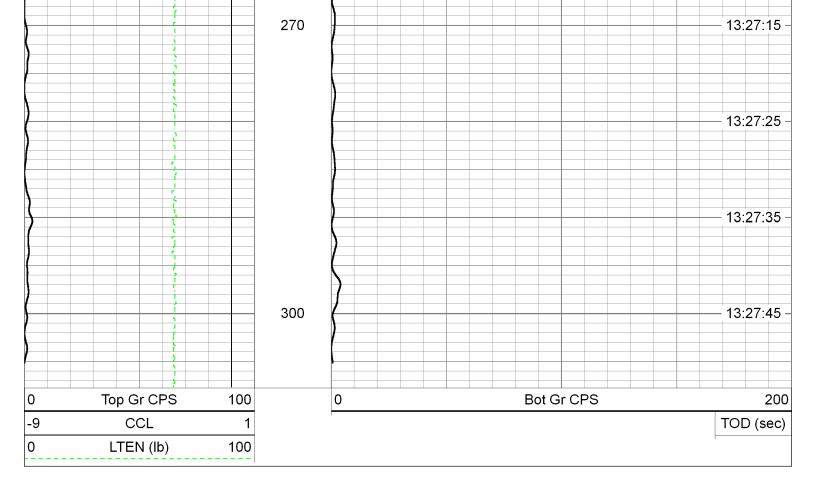


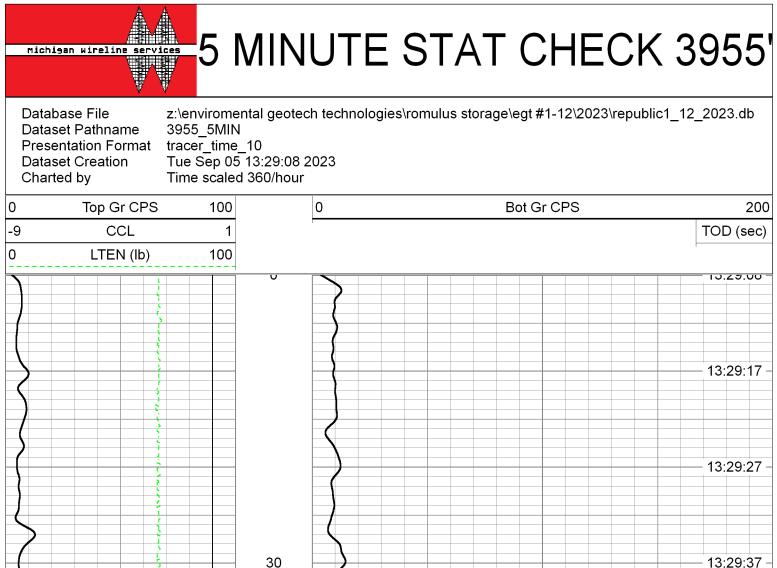


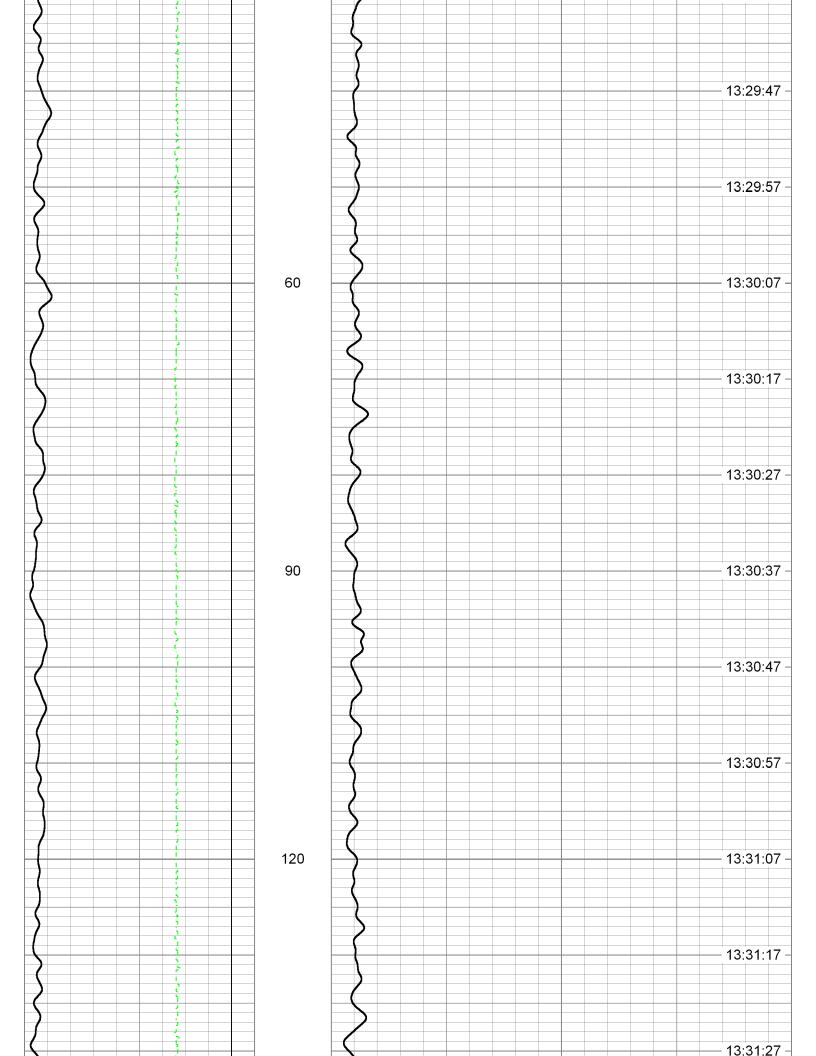


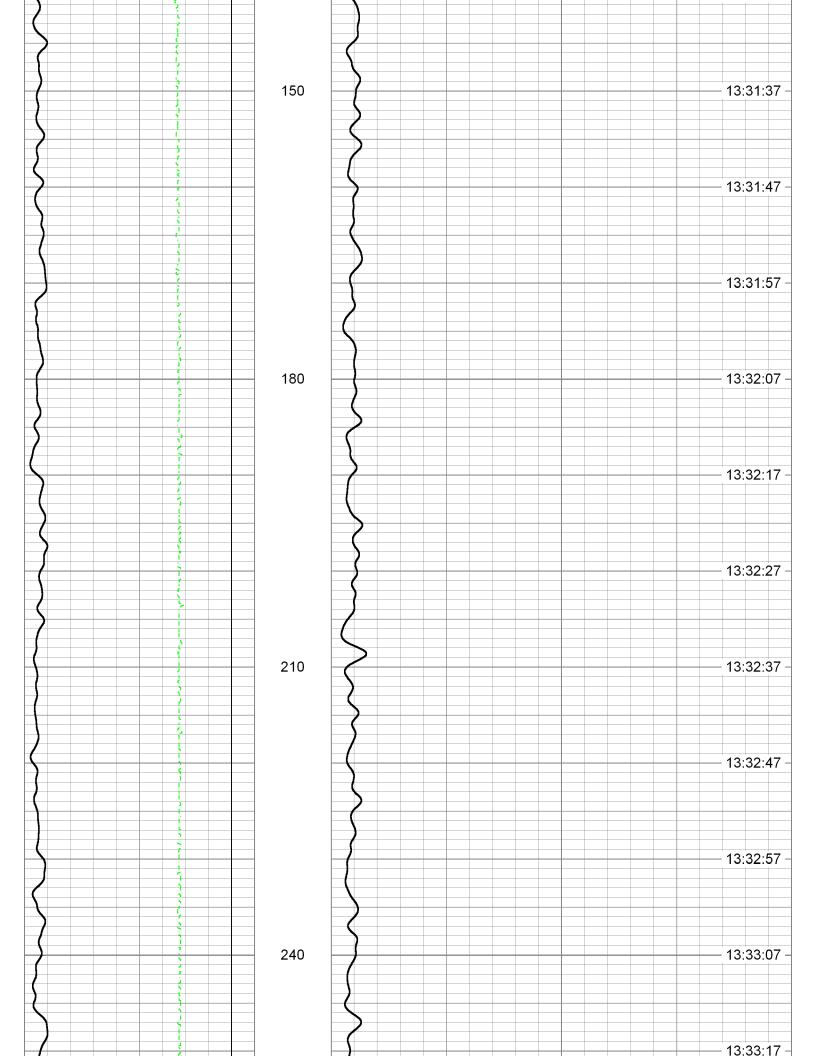


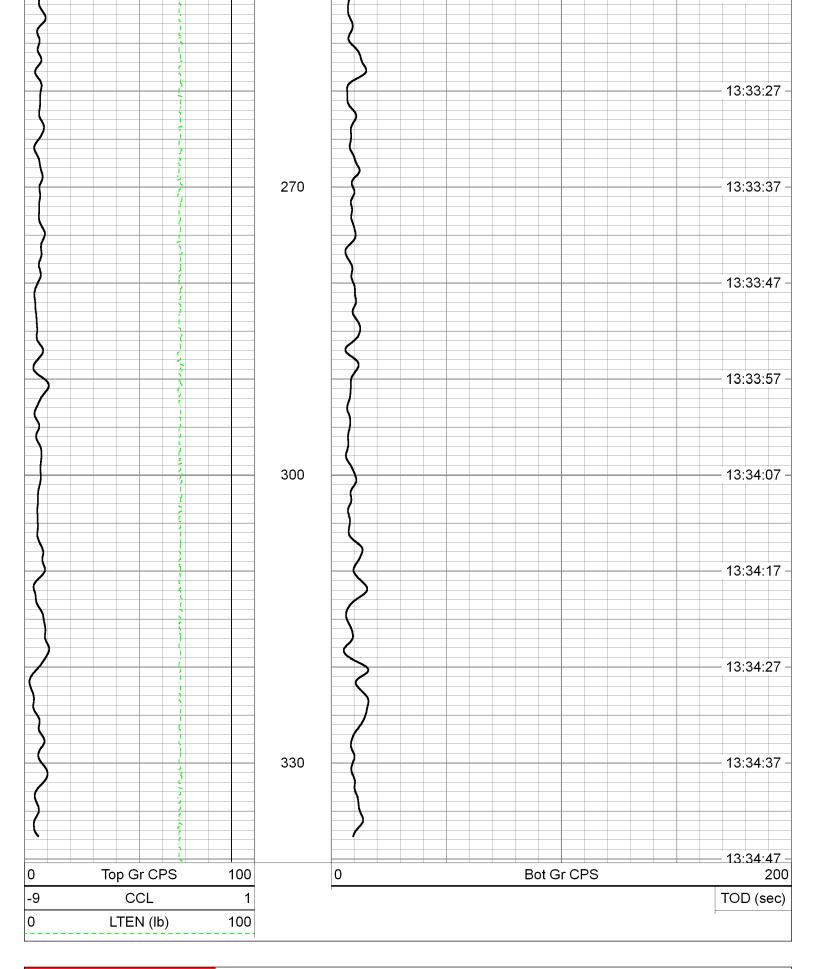








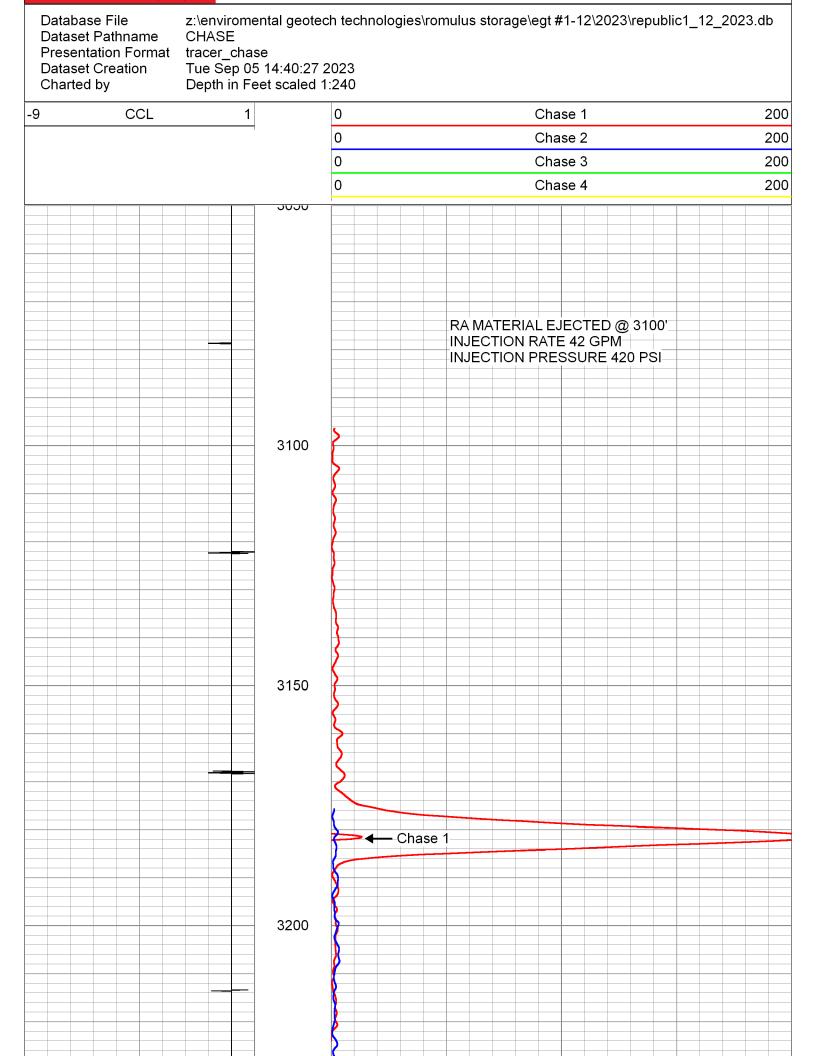


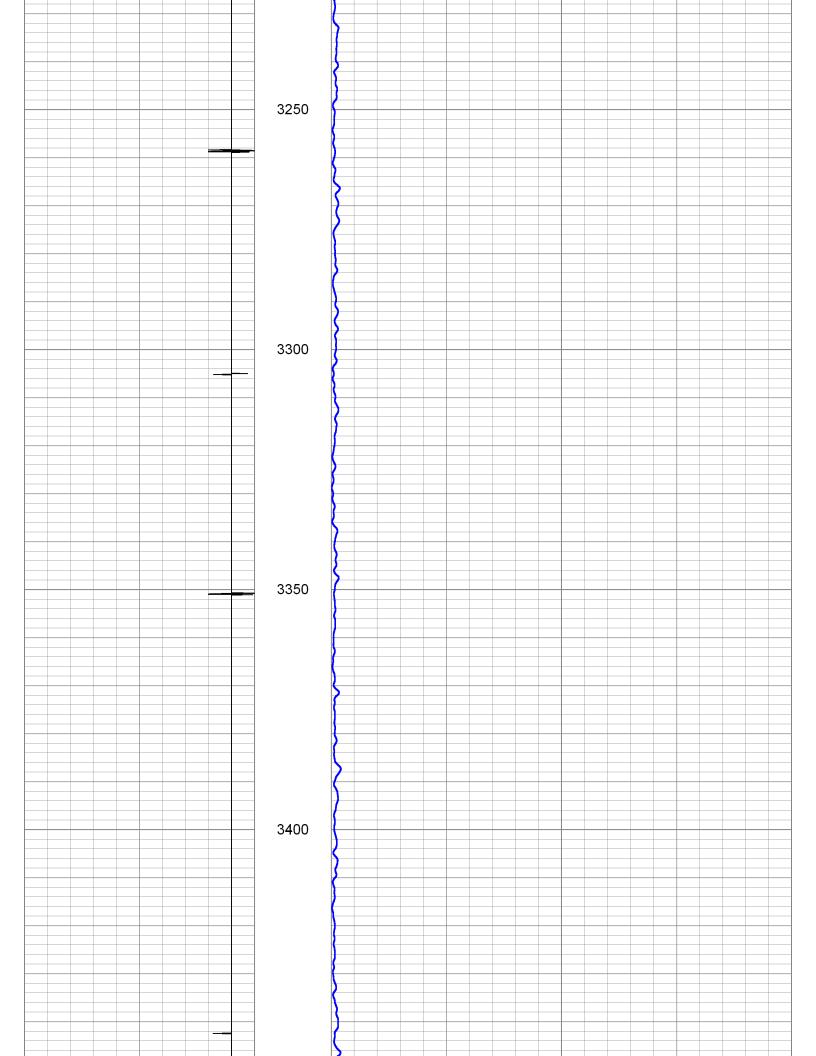


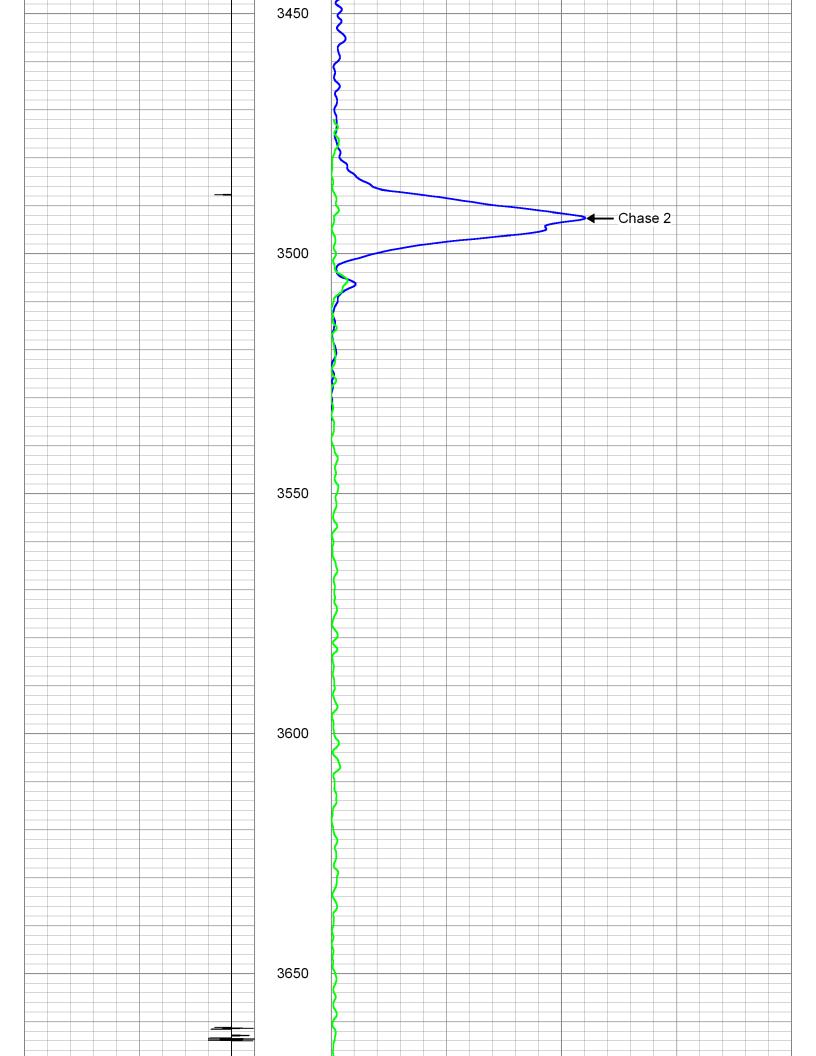


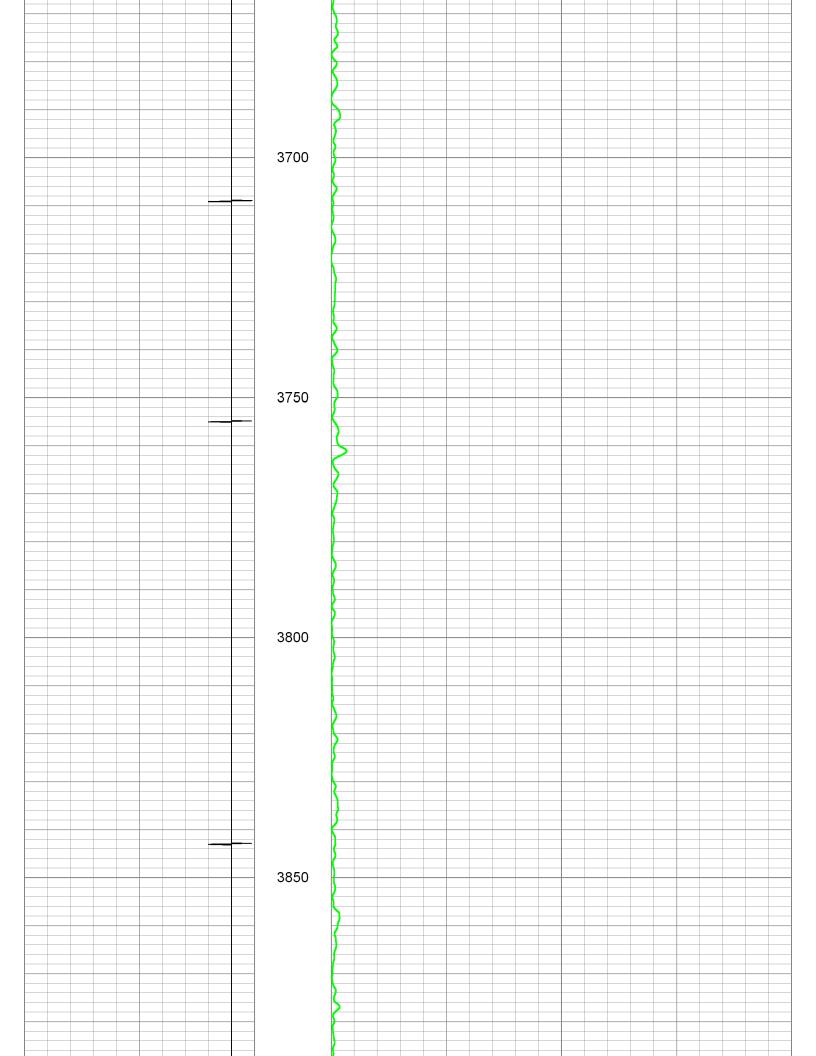
CHASE MERGED PASSES

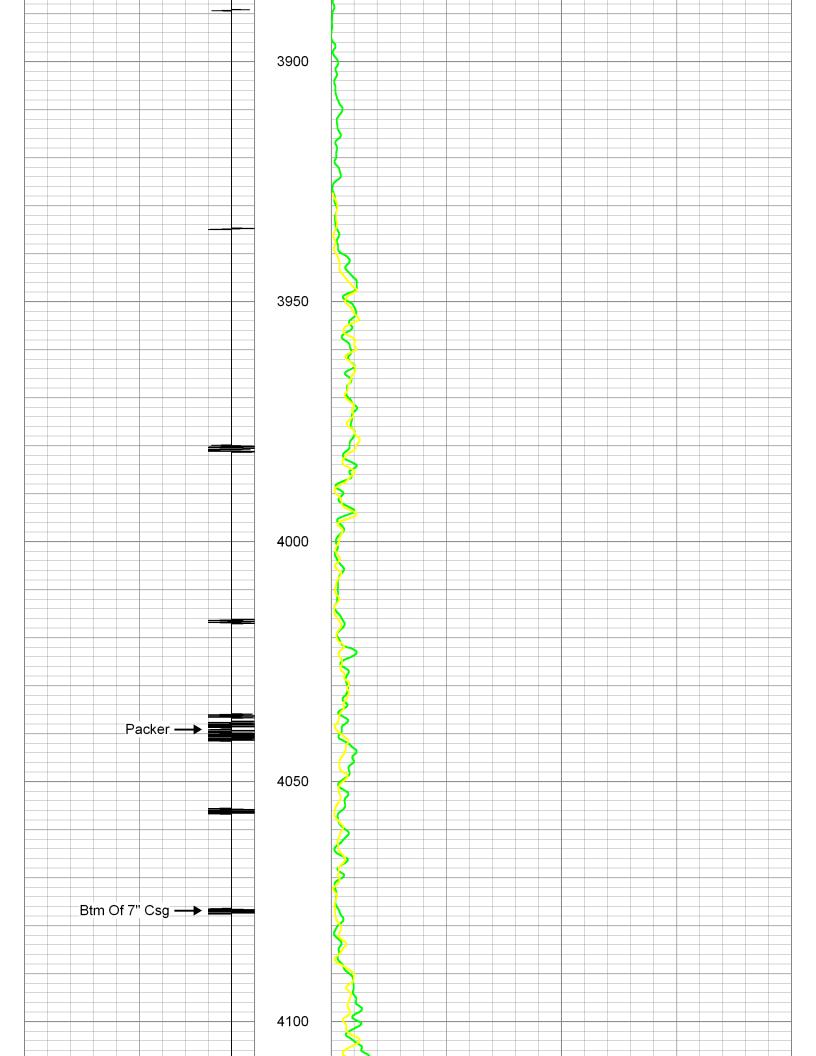
RA MATERIAL EECTED @ 3100' INJECTION 42 GPM 420 PSI

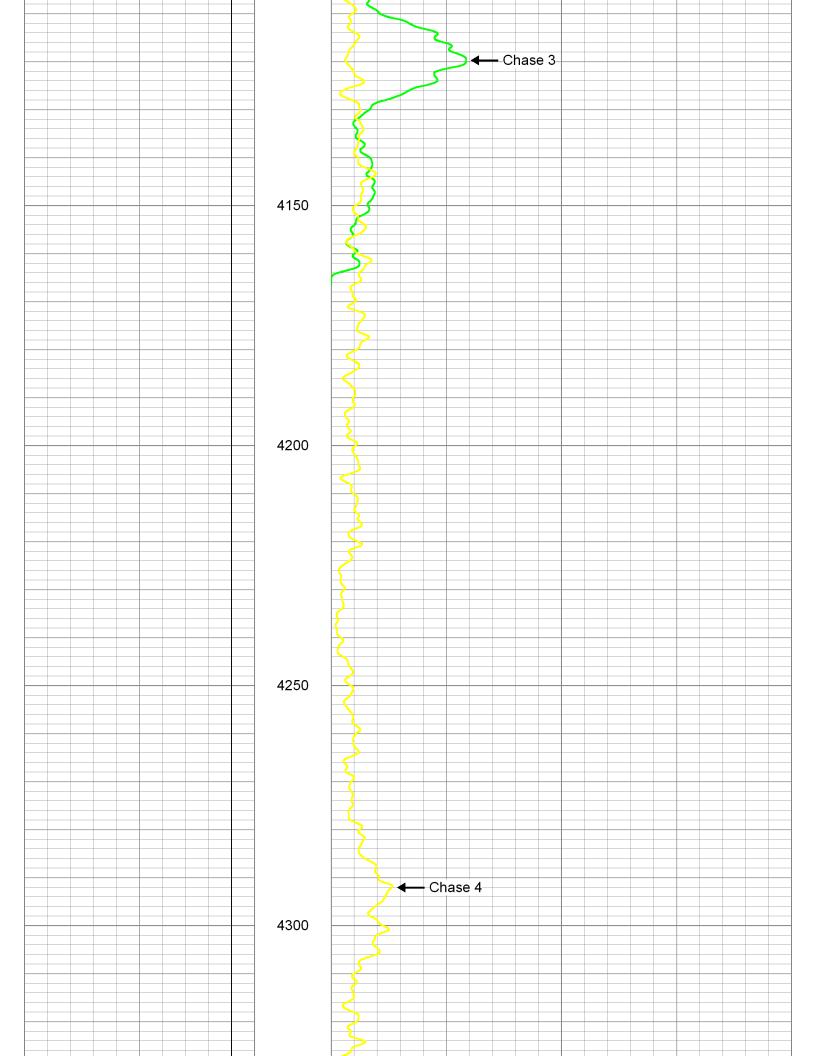


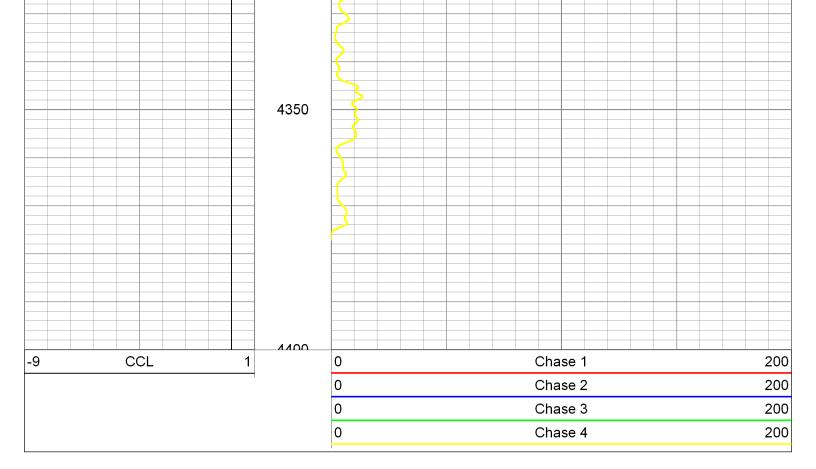




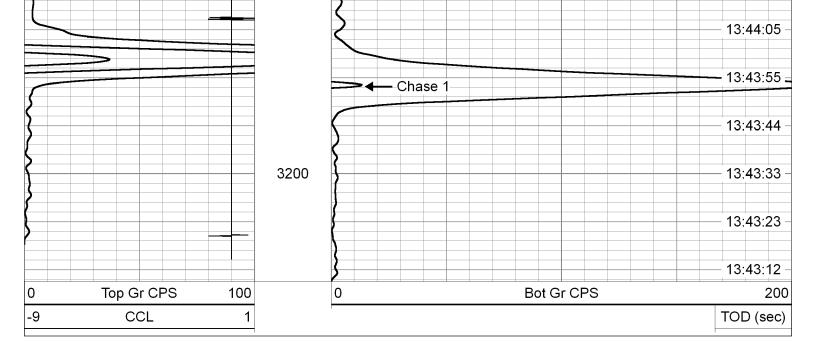


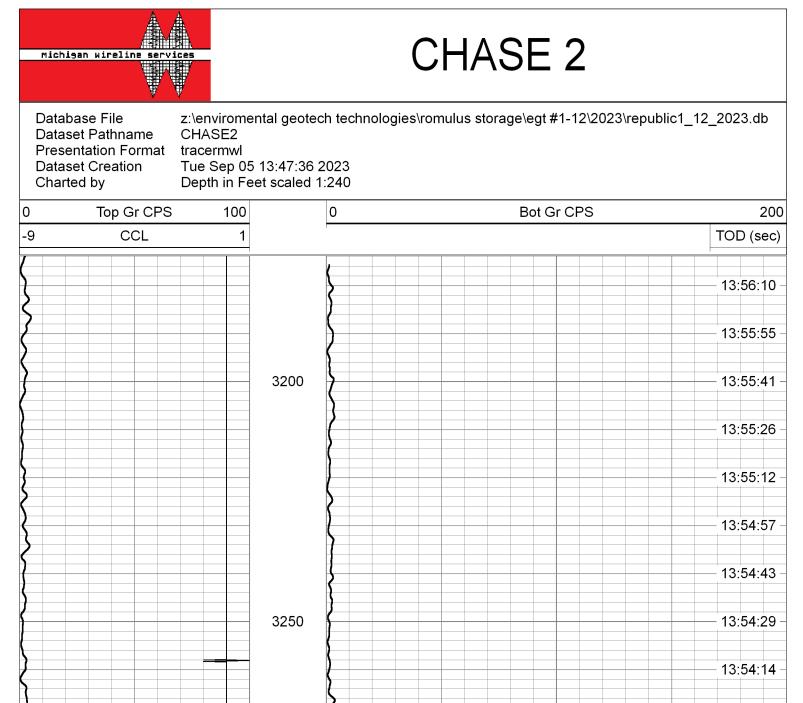


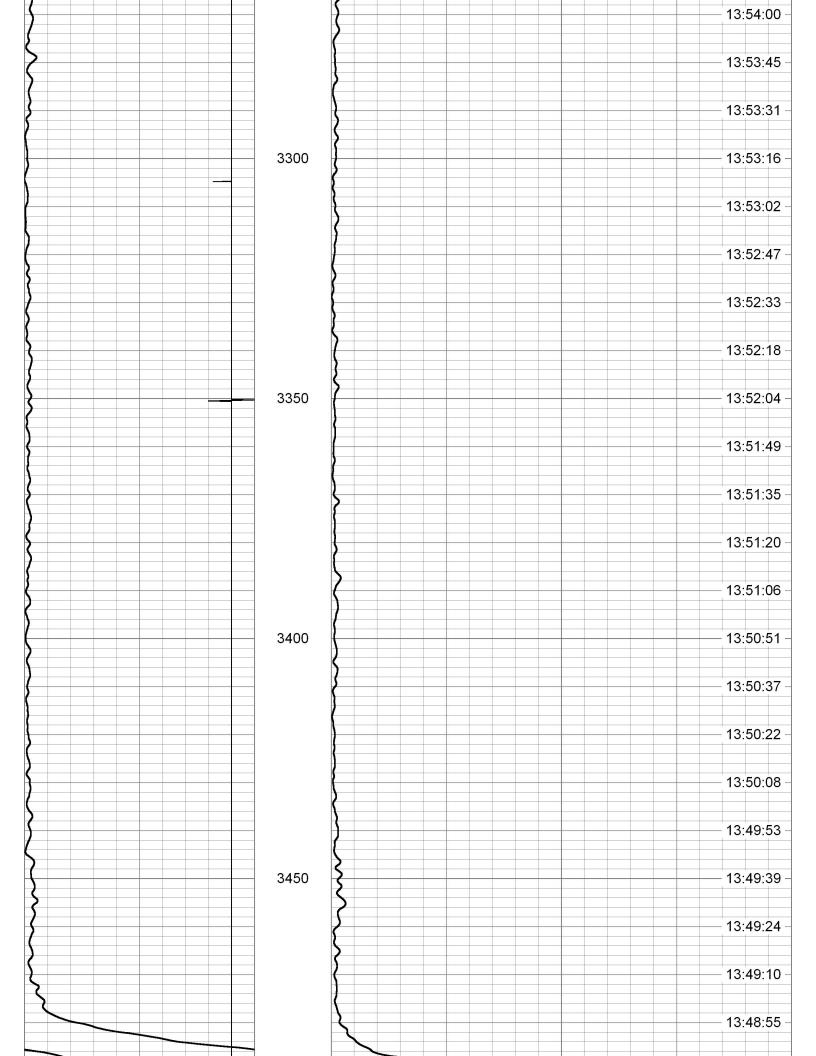


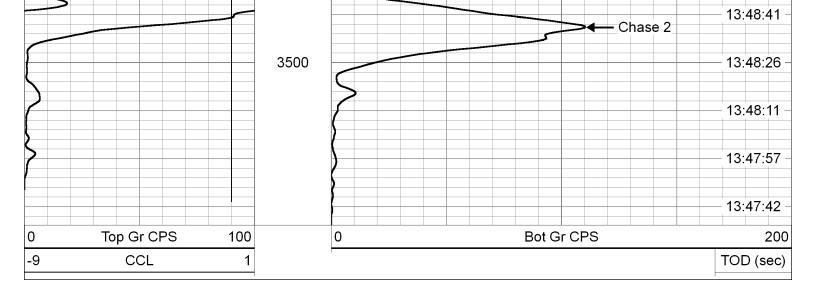


Michigan Wireline Serv	CHASE 1											
Database File Dataset Pathname Presentation Format Dataset Creation Charted by	CHASE1 tracermwl Tue Sep 05	ental geotech 5 13:43:09 20 eet scaled 1::	023	iologies\ror	nulus sto	orage\eo	gt #1-12\2	2023\repu	ıblic1_12_	_2023	.db	
0 Top Gr CPS	100	0 Bot Gr CPS								200		
-9 CCL	1	I								TOD	(sec)	
		3100	> > > >							- 13:4	-5:20 - 	
2		T								- 13:4	4:48 -	
		-								- 13:4	4:37 -	
		3150	}							- 13:4	4:27 -	
\		1 - -	2							- 13:4	4:16 -	

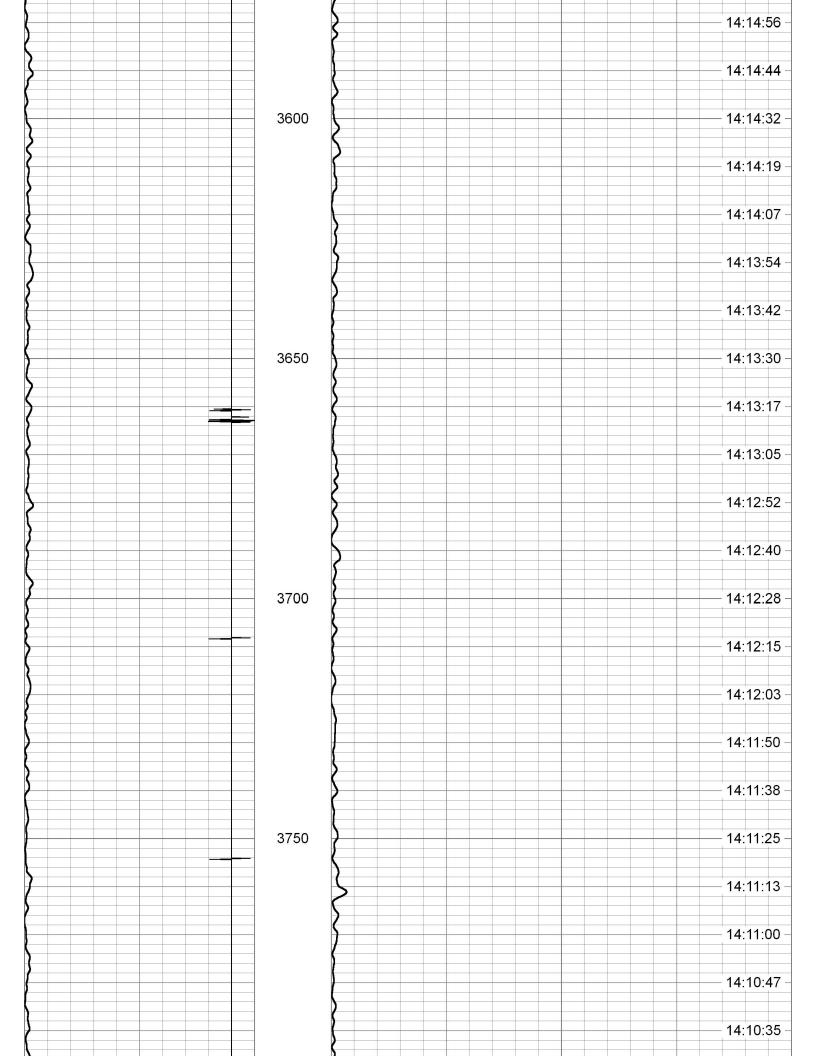


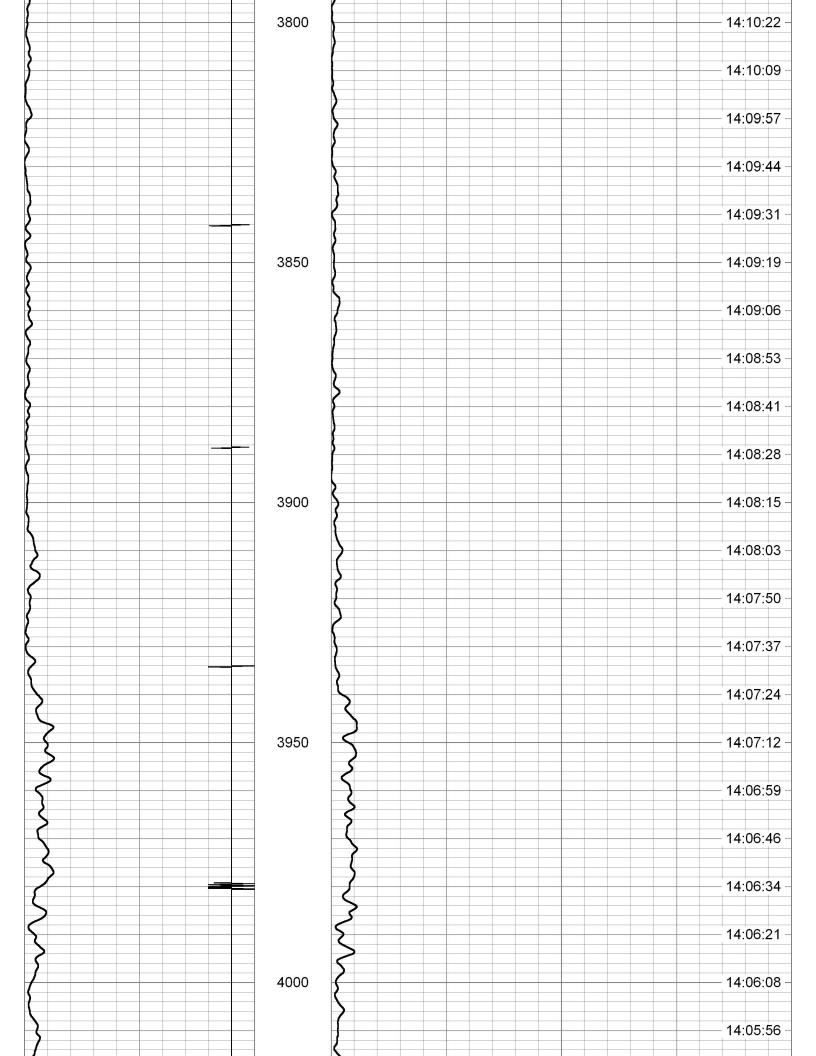


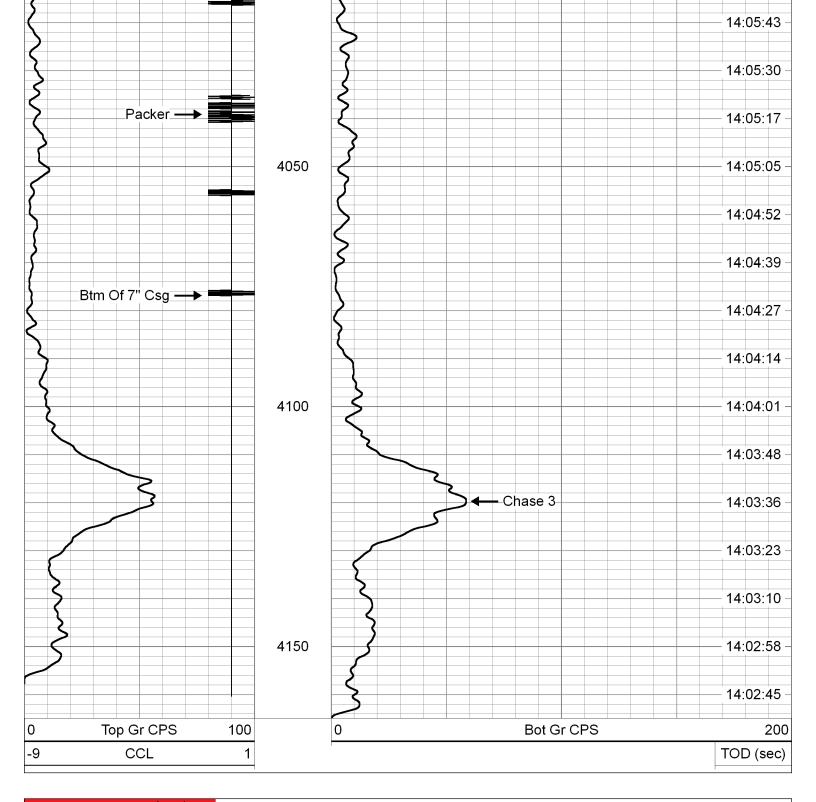




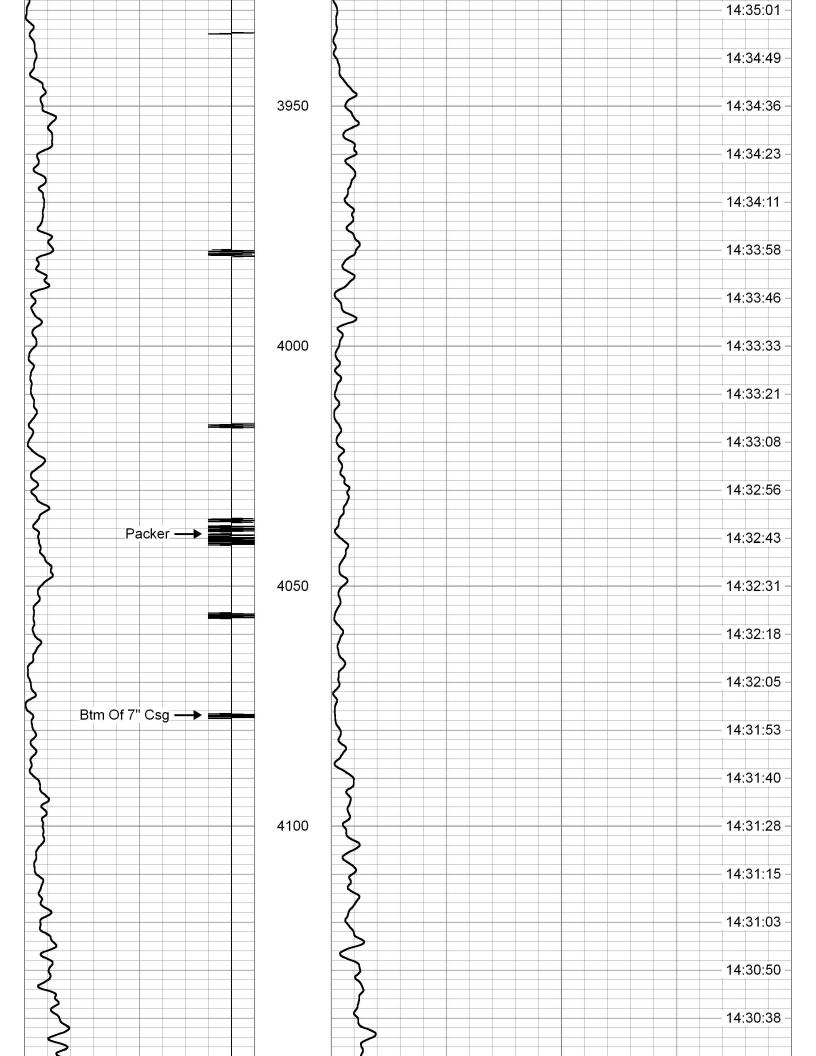
Data Data Pres Data	set Pathname entation Format set Creation	05 14:02:39 2023									
0				et scaled 1:240 0 Bot Gr CPS 20							
-9	•									TOD (sec)	
	Image Image <th< th=""><th></th><th>3500</th><th></th><th></th><th></th><th></th><th>Image: Section of the sectio</th><th>- 14:17:0 - 14:16:4 - 14:16:5 - 14:16:5 - 14:16:5</th><th>48 - 35 - 23 - 11 -</th></th<>		3500					Image: Section of the sectio	- 14:17:0 - 14:16:4 - 14:16:5 - 14:16:5 - 14:16:5	48 - 35 - 23 - 11 -	
	Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image <tdi< td=""><td></td><td>3550</td><td></td><td></td><td></td><td></td><td></td><td>14:15:4 14:15:4 14:15:2 14:15:2 14:15:2 14:15:2</td><td>46 - 34 - 21 -</td></tdi<>		3550						14:15:4 14:15:4 14:15:2 14:15:2 14:15:2 14:15:2	46 - 34 - 21 -	

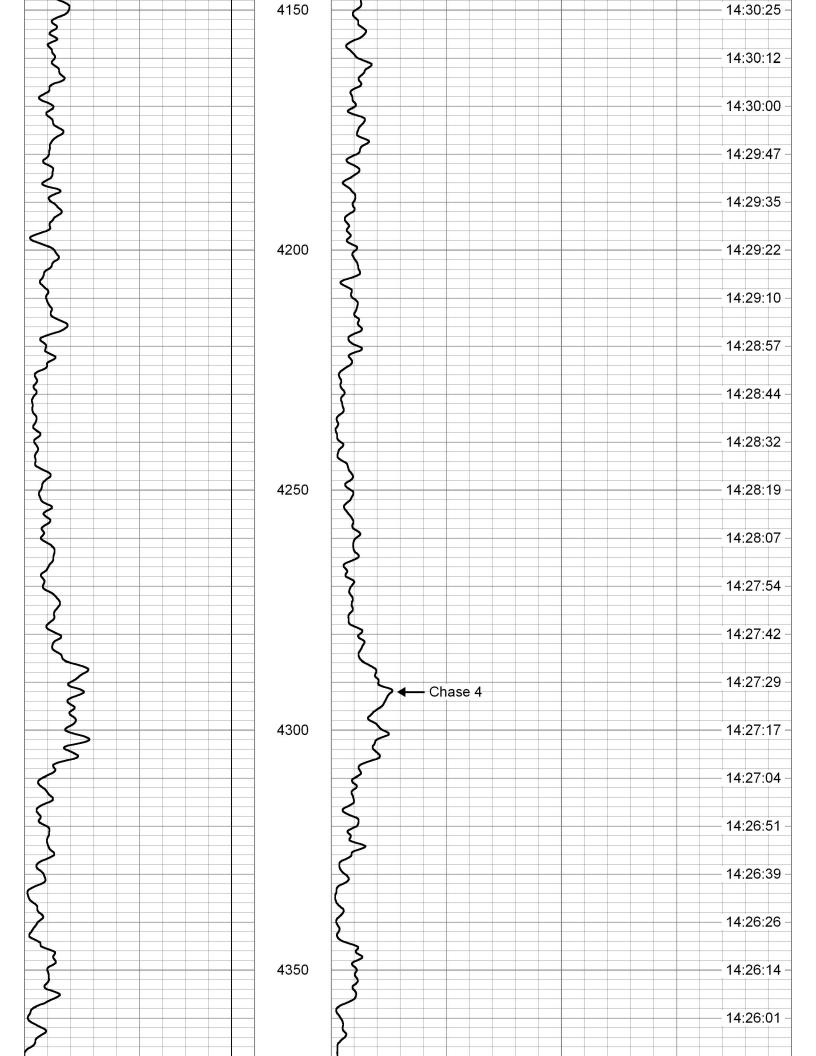


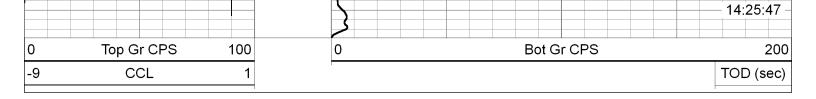


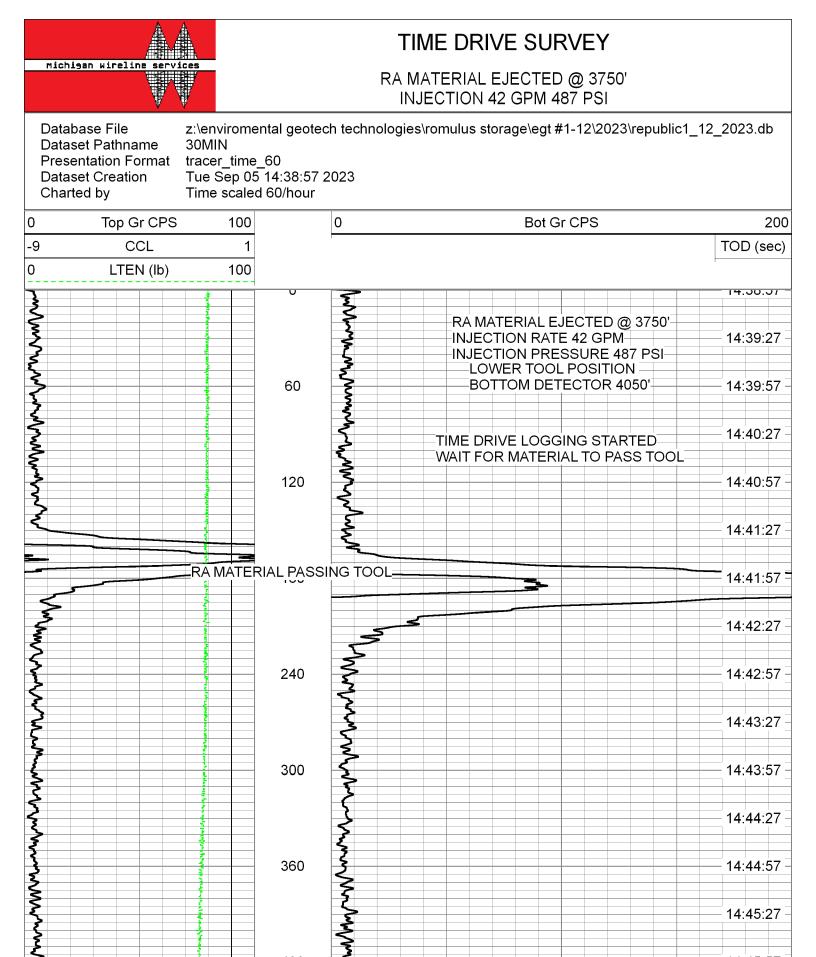


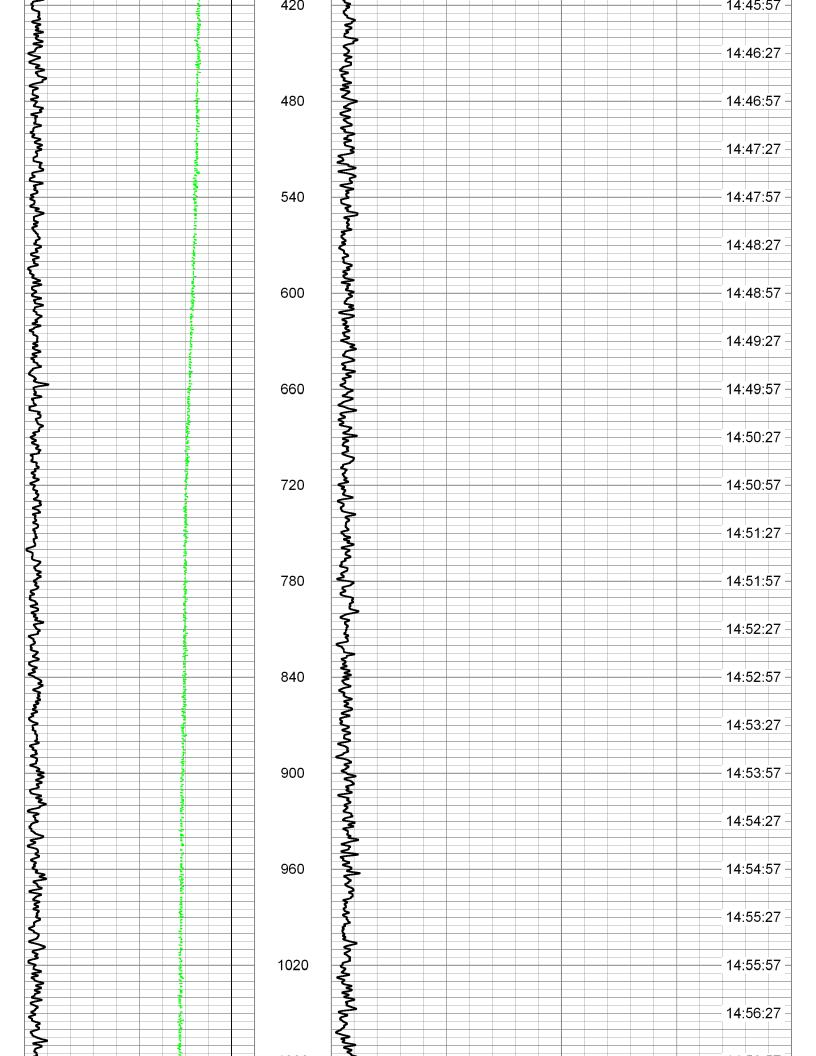
	michigan wireline servi	ces		С	HASE	4	
	Database File Dataset Pathname Presentation Format Dataset Creation Charted by	CHASE4 tracermwl Tue Sep 05	ental geotech te 5 14:25:38 202: eet scaled 1:24	3	ulus storage\egt #	#1-12\2023\republi	c1_12_2023.db
0	Top Gr CPS	100	0		Bot G	or CPS	200
-(9 CCL	1					TOD (sec)
1							

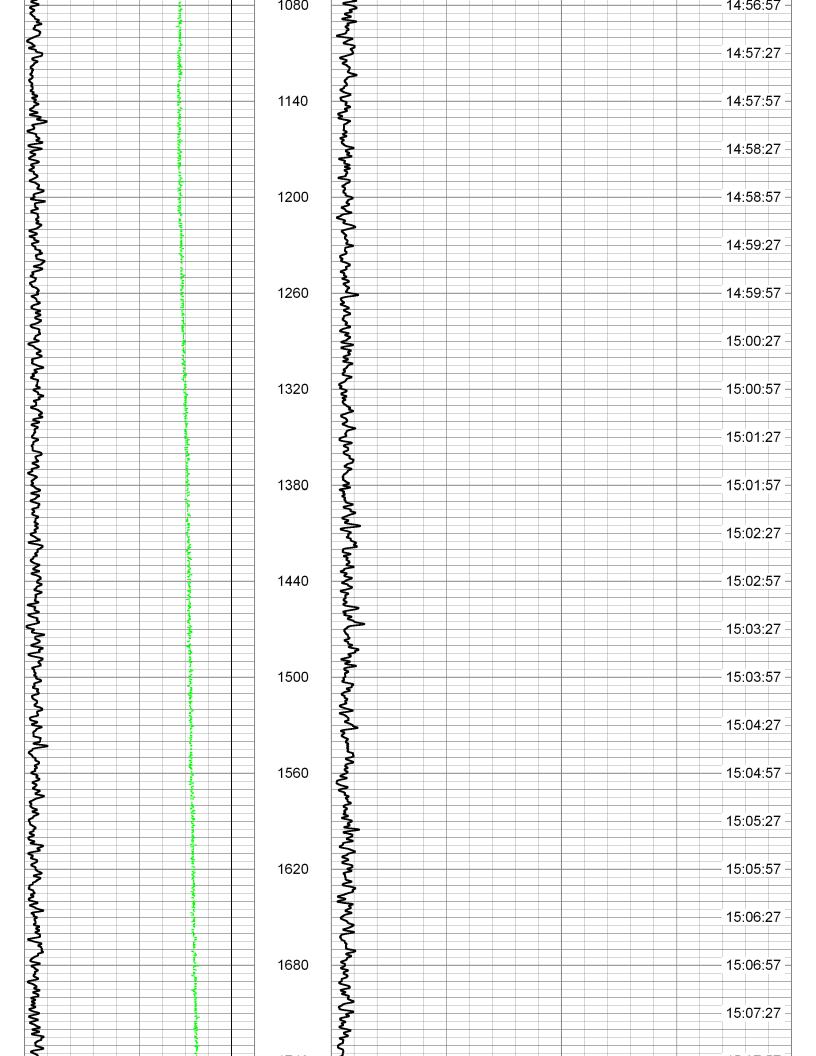


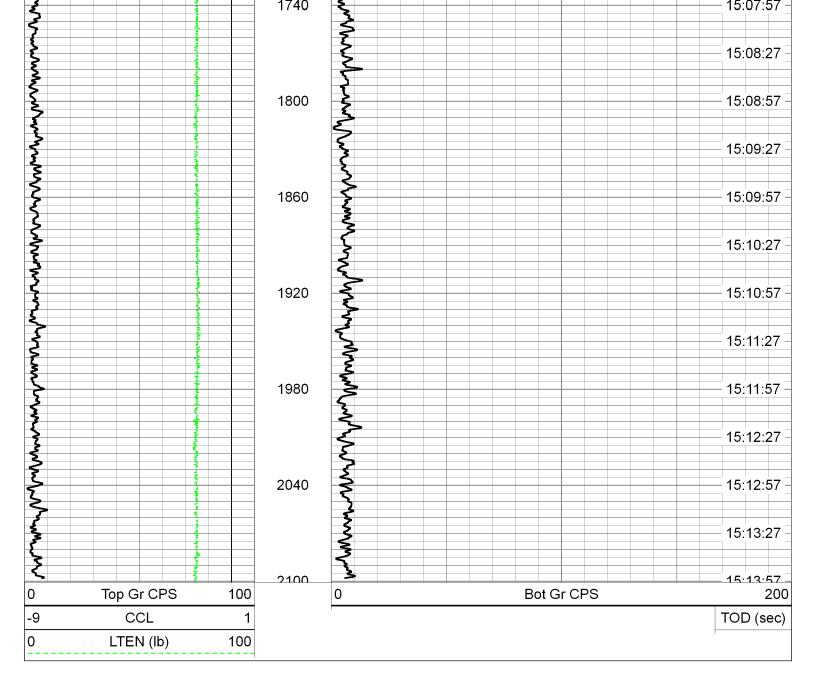


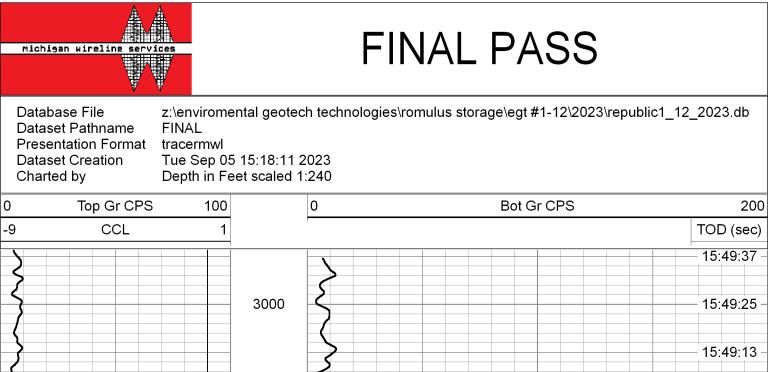


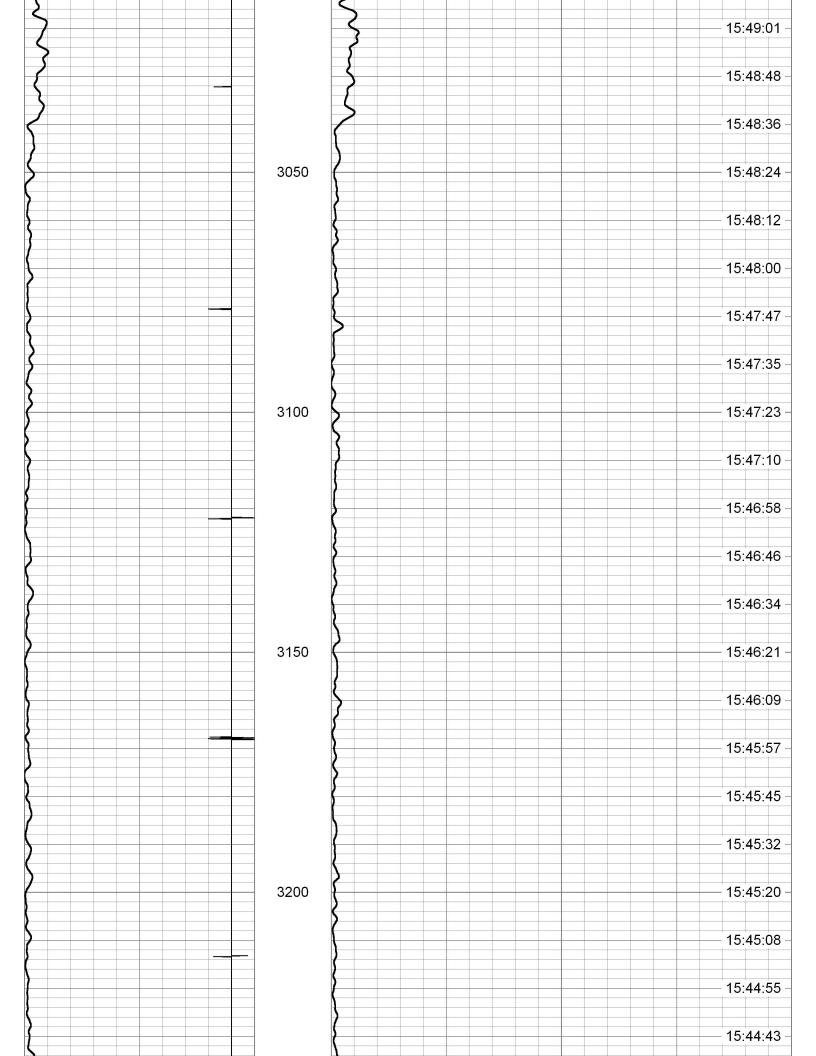


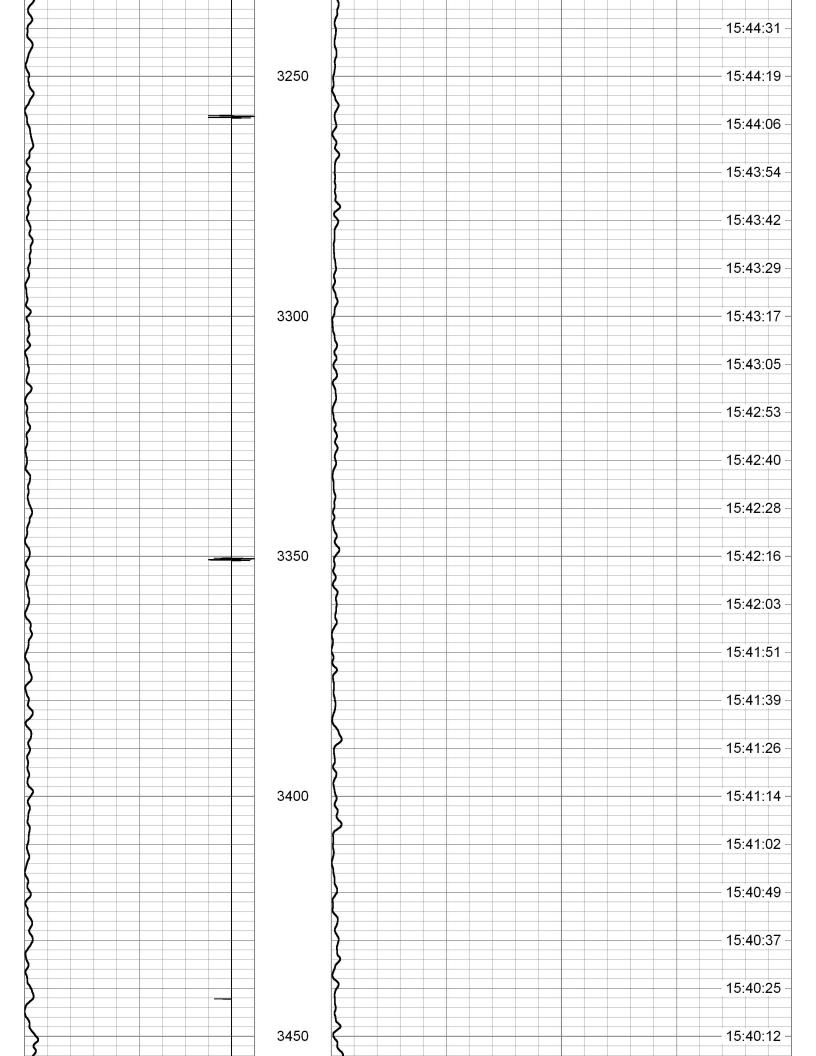


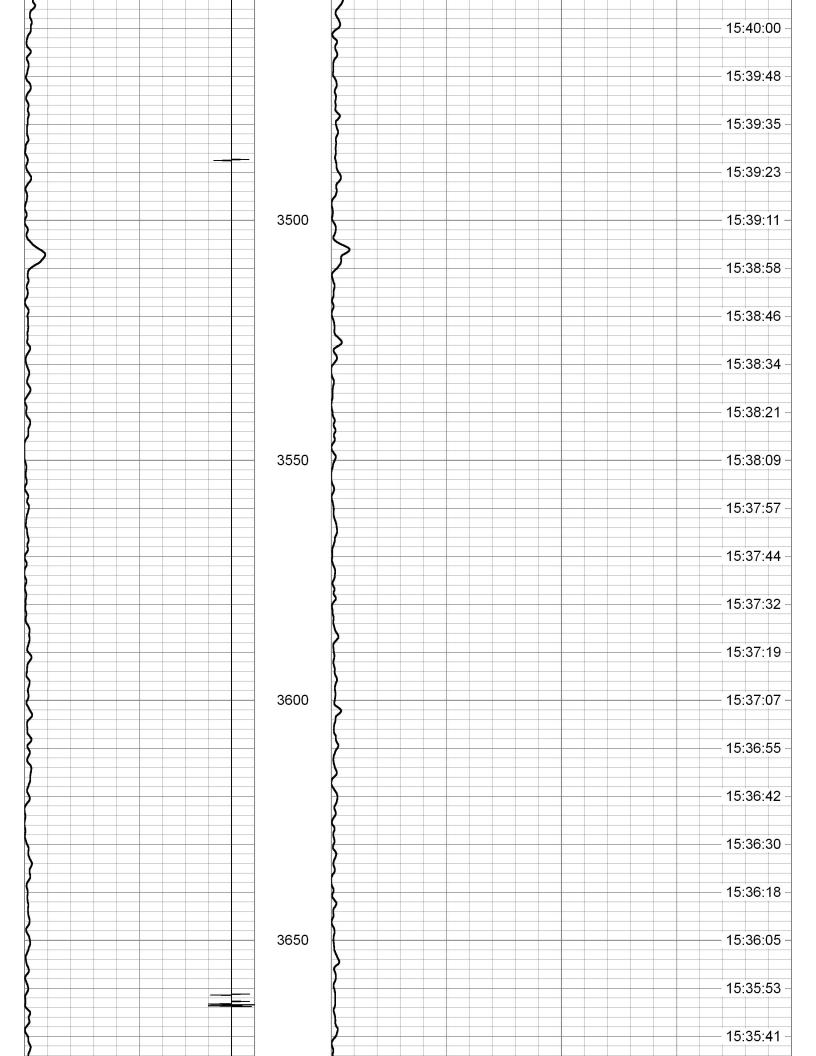


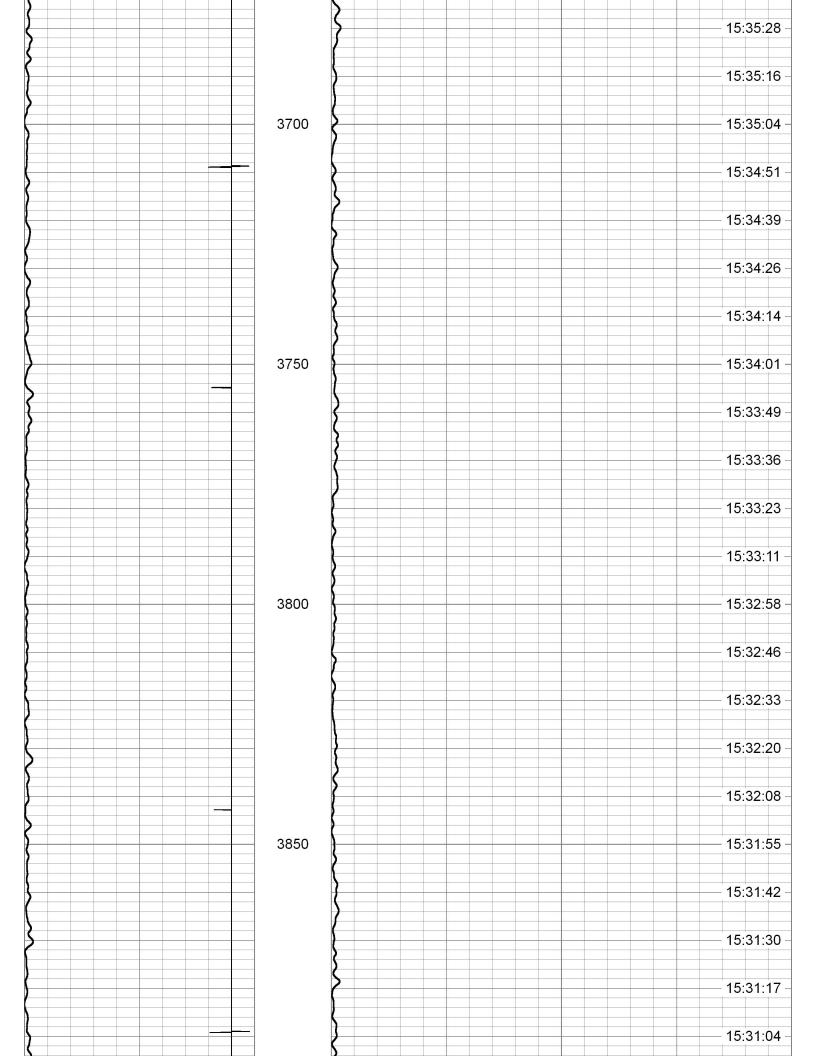


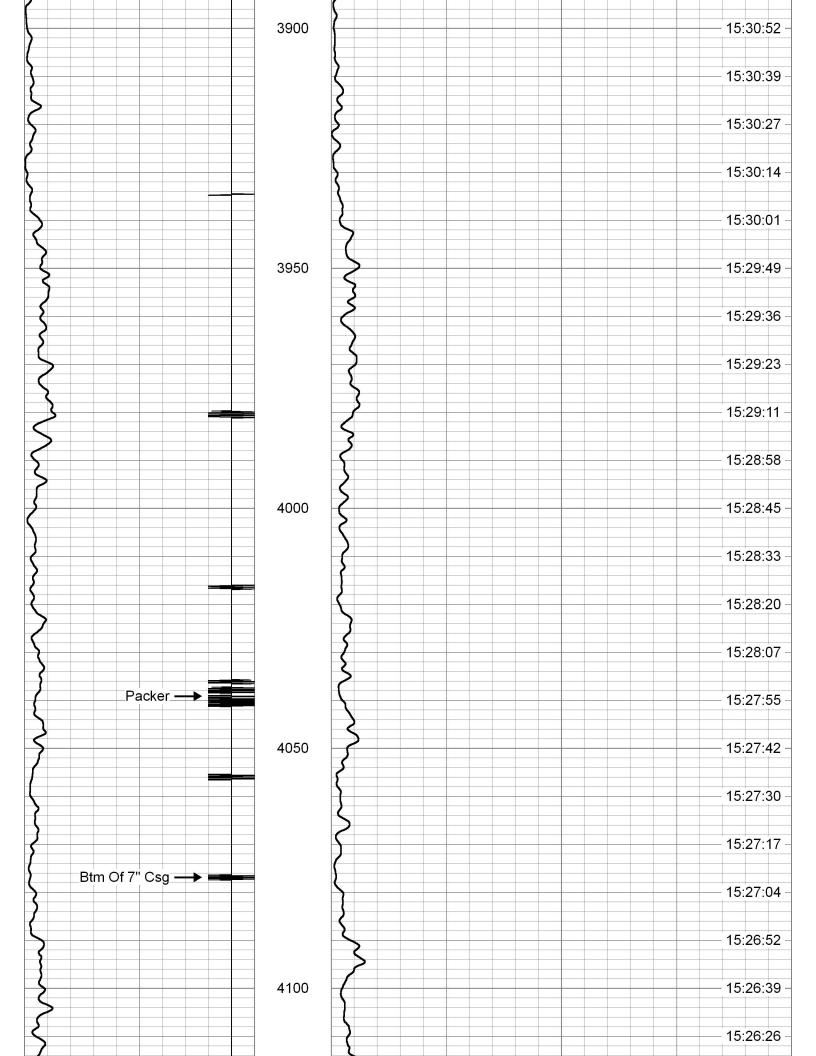


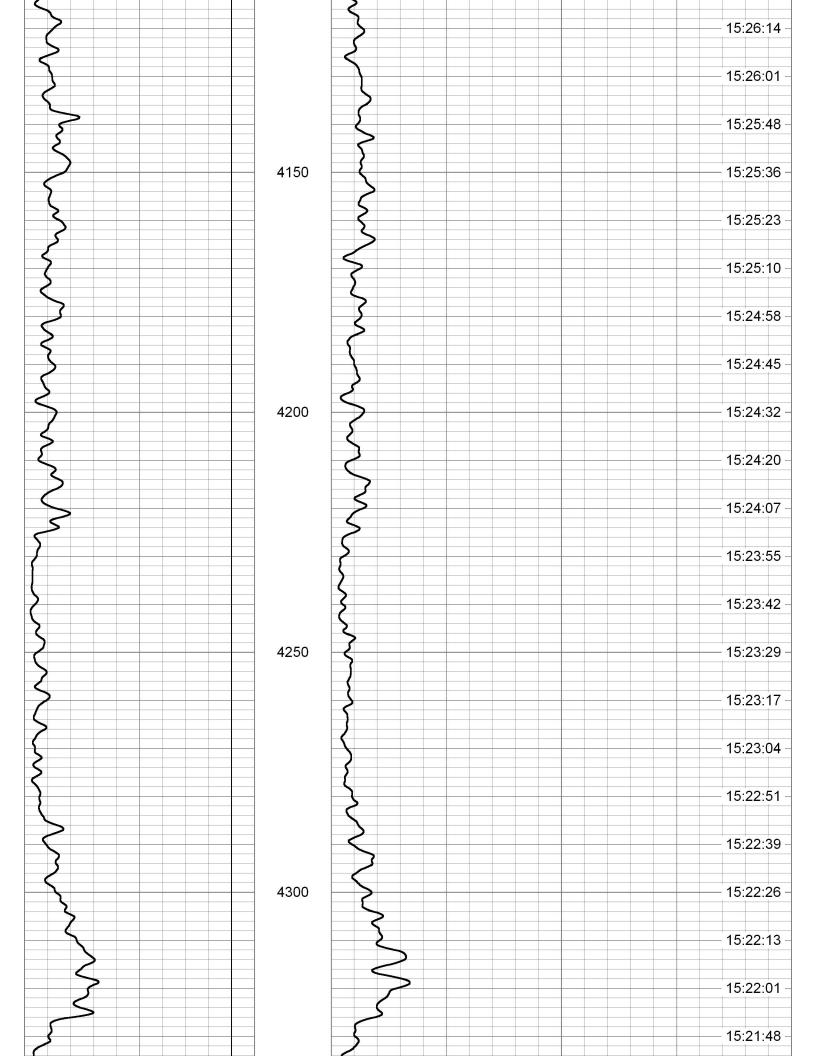


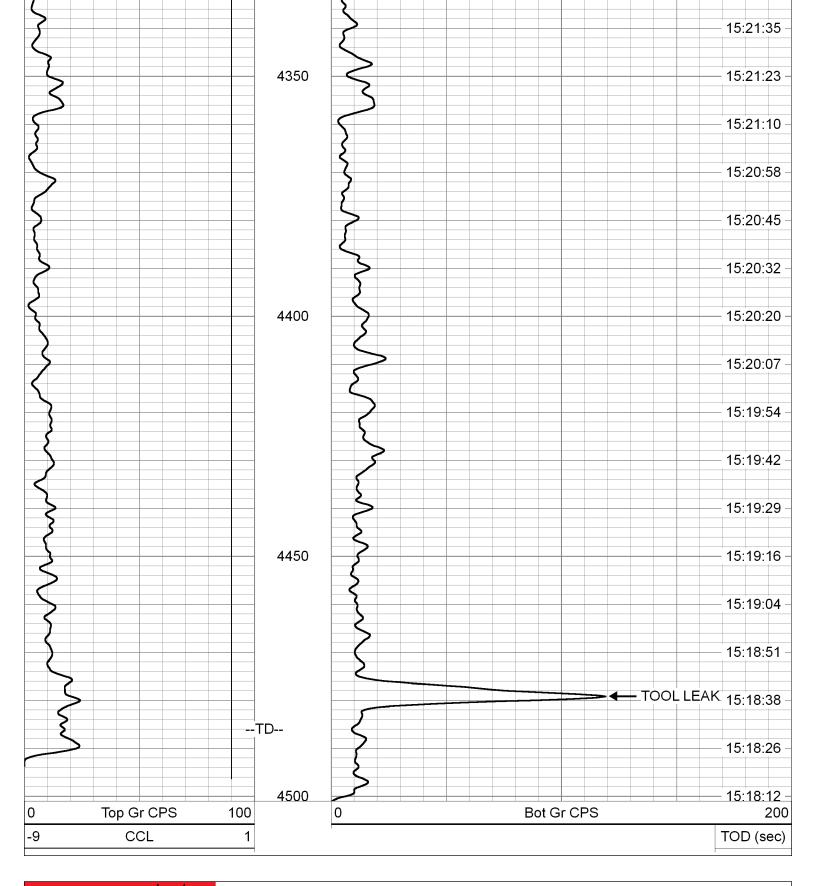








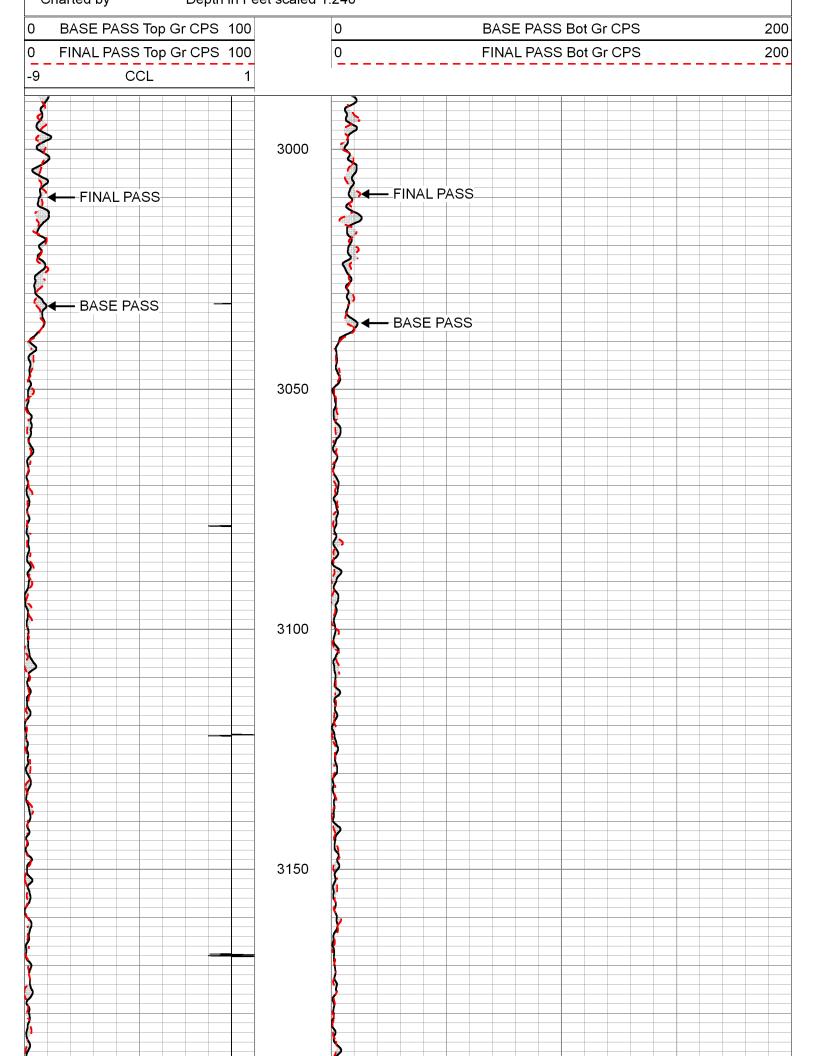


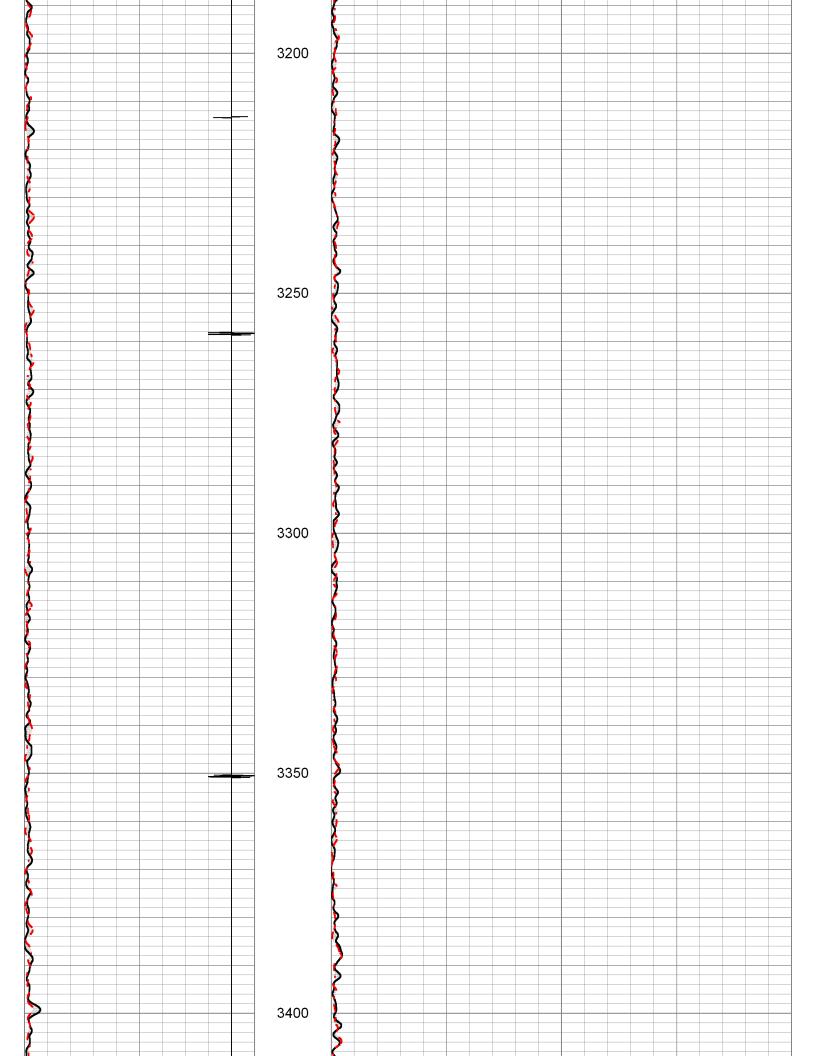


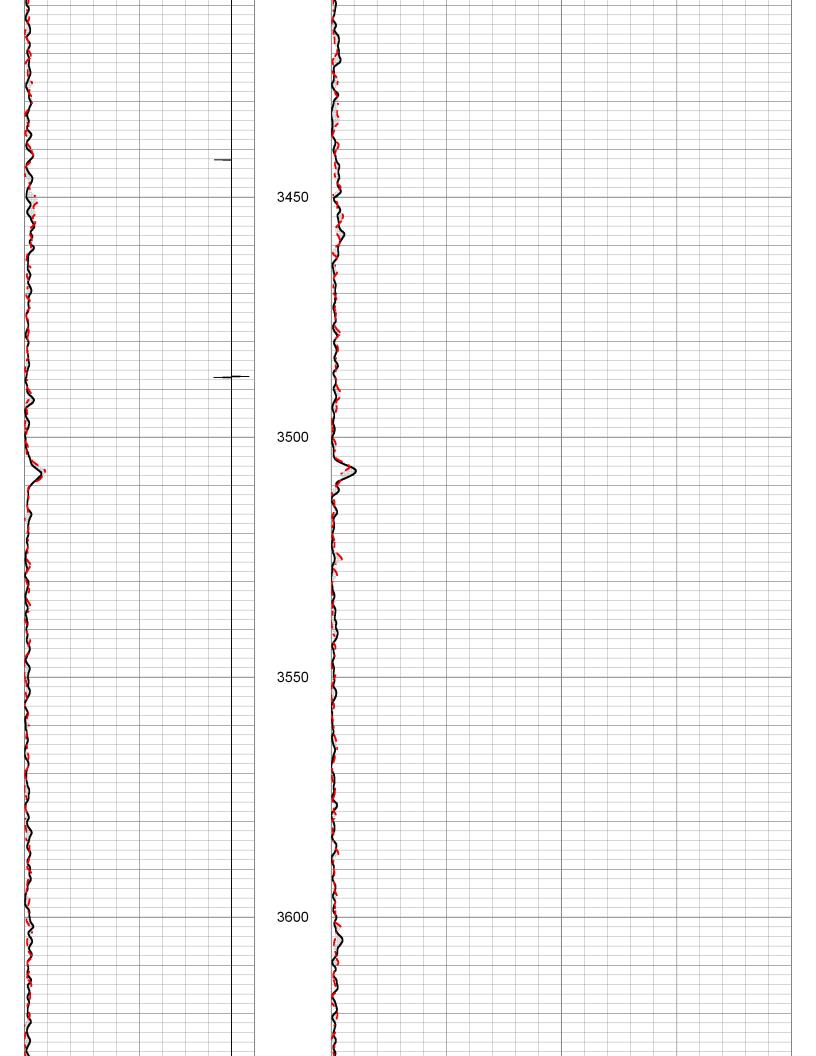


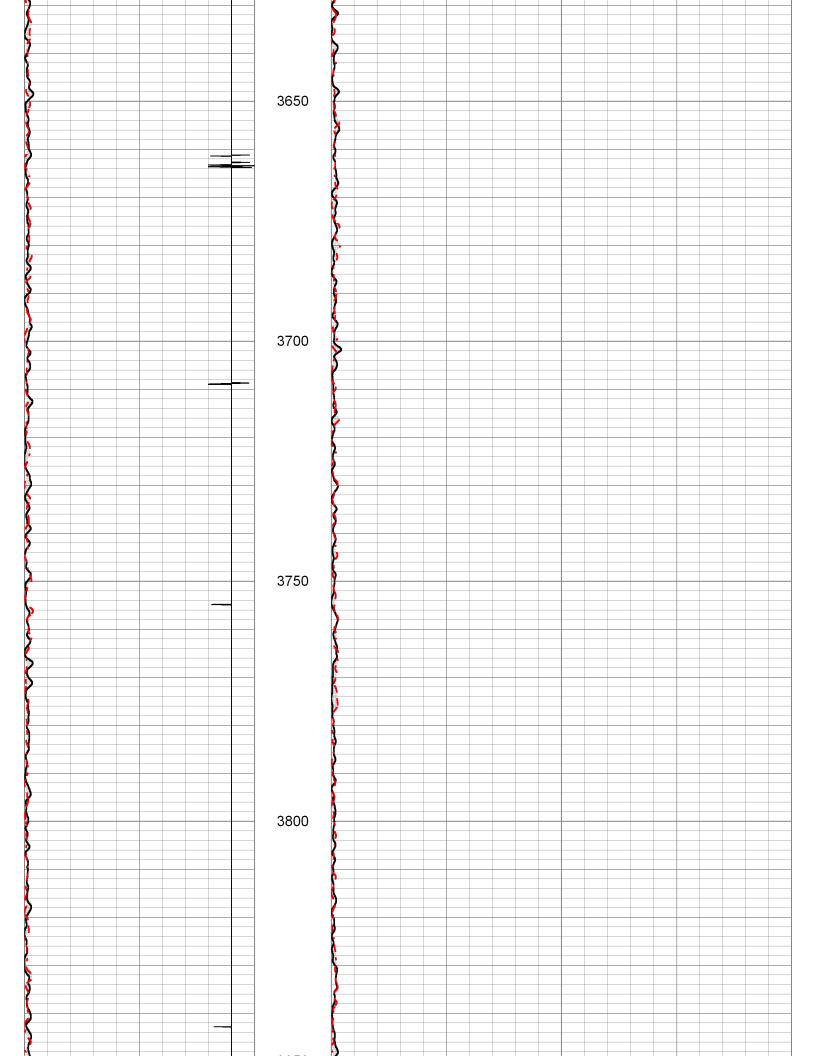
BASE VS FINAL

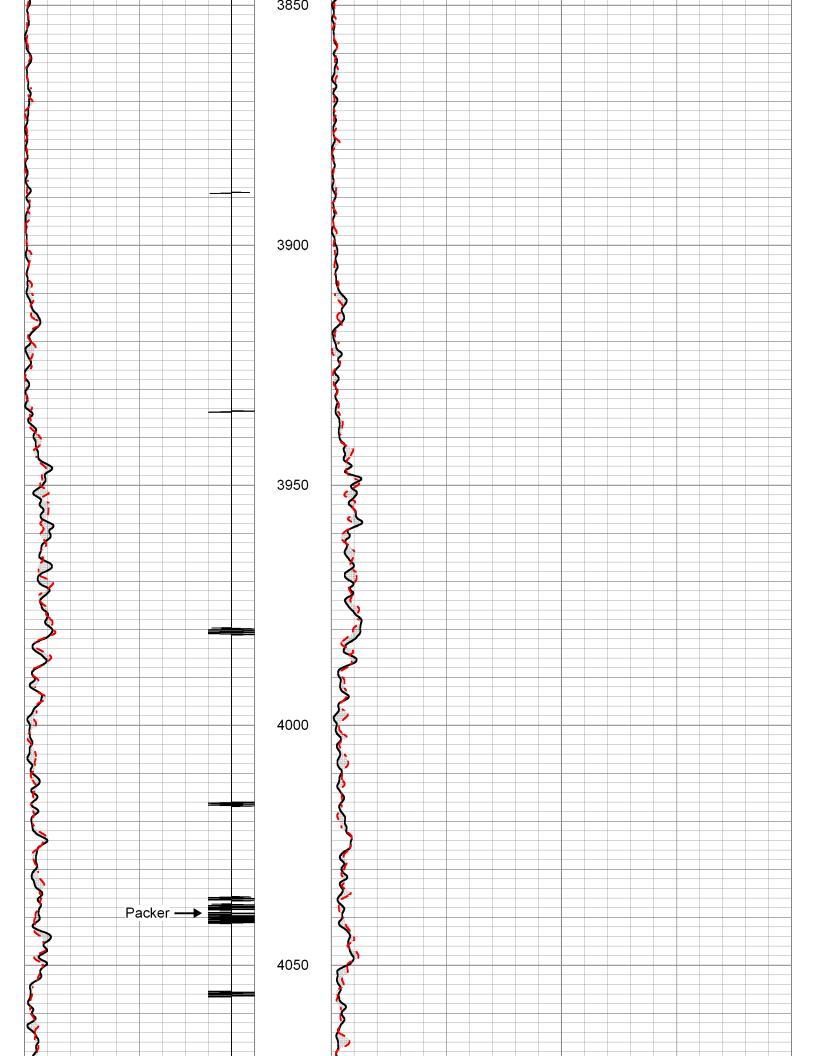
Database File Dataset Pathname Presentation Format Dataset Creation z:\enviromental geotech technologies\romulus storage\egt #1-12\2023\republic1_12_2023.db FINAL_BASE tracer_final_vs_base Tue Sep 05 15:50:39 2023 Denth in East scaled 1:240

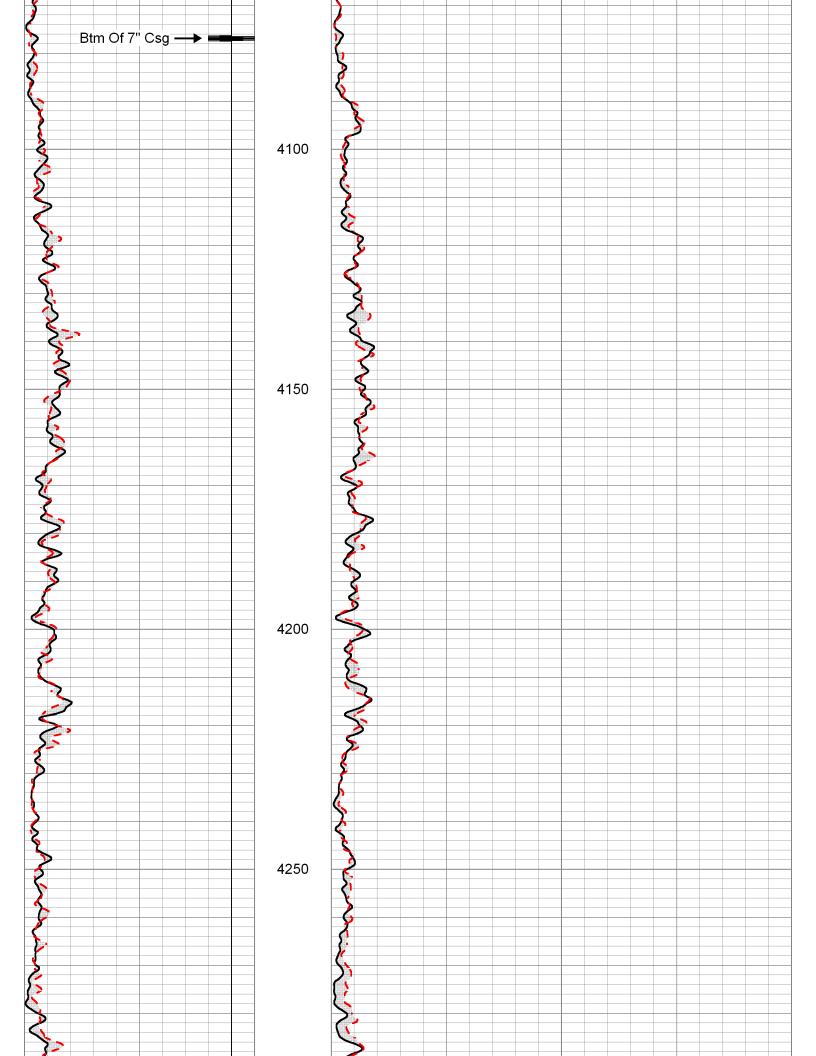


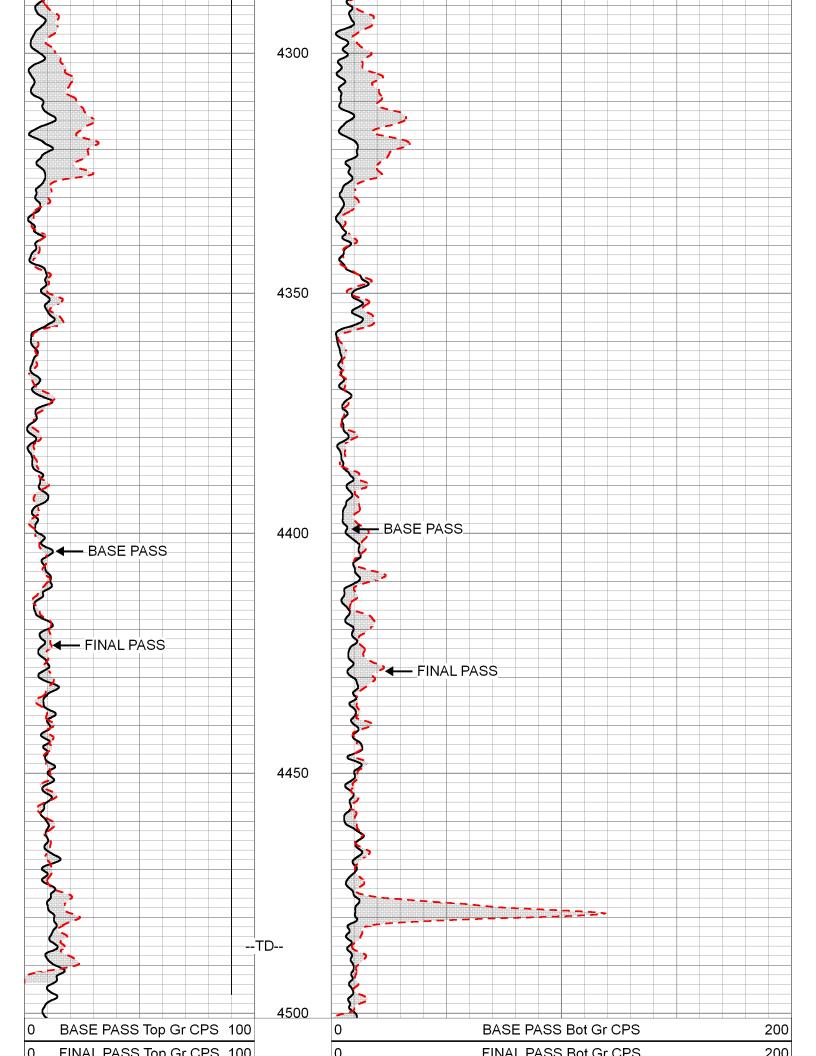












Sensor	Offset (ft)	Schematic	Description	Length (ft)	OD (in)	Weight (Ib
			TREJCT-COMPROBE_MID (0004) Comprobe Ejector DO NOT EXCEED 100ma	0.08	1.38	25.00
DET\$2	9.73		TRDET-COMPROBE_MID_NO_BAR_SHORT _(0006) Comprobe Middle Ejector no spacer bar	13.15	1.38	10.00
CCL	4.50					
DET\$1	1.00	-				
LOCTIM	0.00	~_ Ū	-			

Dataset:	republic1_12_2023.db: field/well/run1/FINAL_BASE	
Total ler	th: 13.23 ft	
Total we	ht: 35.00 lb	
O.D.:	1.38 in	



RAW PRESSURE AND TEMPERATURE DATA FROM FALLOFF AND STATIC PRESSURE GRADIENT (09-07-23 - 09-09-23)





WELL 1-12 RAT SURVEY - 4 CHASE PASSES (09-05-23).LAS



WELL 1-12 RAT SURVEY - TIME-DRIVE (09-05-23).LAS



WELL 1-12 RAT SURVEY - BASE_FINAL PASSES (09-05-23).LAS

