

**UIC - I - 11**

**ANNUAL  
REPORT**

**2018**

# **ANNUAL CLASS I WELL REPORT**

**Waste Disposal Well #2  
January – December 2018**



**Western Refining Southwest, Inc.  
Bloomfield Terminal  
Bloomfield, New Mexico  
Permit # - UICI-011  
API # - 30-45-35747**

**April 2019**

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## **EXECUTIVE SUMMARY**

This report provides a summary of activities conducted in 2018 on Waste Disposal Well #2 (WDW-#2) at the Western Refining Bloomfield (“Western”) facility. The following is a summary of well operations and well testing activities performed in 2018.

### **Operational Summary**

**Injection Volume** - The volume injected into the disposal well during 2018 was 1,227,156 gallons. The well was not operational for approximately 8,411 hours, which is equivalent to 350.5 days due to low wastewater volume demand. Table 1 provides a summary of the well’s operation in 2018.

**Sampling and Chemical Analyses** - Injection fluids samples were collected on a quarterly basis for chemical analysis pursuant to Permit Condition 2.A. Analytical results show that the wastewaters injected through the on-site injection well exhibit characteristics of being a RCRA non-hazardous waste. A summary of the analytical results is provided in Table 2. A copy of the analytical laboratory reports included the Quality Assurance / Quality Control (QA/QC) results are provided in Appendix C.

**Braiden Head Tests** – The Braiden Head Test is conducted in conjunction with the annual Fall-Off Test. A Braiden Head Test was performed on the Braiden head and intermediate casings on April 15<sup>th</sup>, 2019. A copy of the test report is included in Appendix D.

**Mechanical Integrity Tests** – Pursuant to Permit Condition 3. D.1. of UICI-011, a Mechanical Integrity Test (MIT) is required once every five year unless otherwise instructed by the NMOCD Director. The most recent MIT was conducted on June 8, 2017 with a representative of NMOCD present to observe. There were no issues or concerns raised by NMOCD. Therefore, a MIT was not performed in 2018. The next schedule MIT will be conducted 2022, unless requested earlier by the New Mexico Oil Conservation Division (NMOCD).

**Fall-Off Test** -- Due to the lack of precipitation and lower volume of wastewater effluent produced by the Bloomfield Terminal Operations in 2018, the rate of evaporation at the evaporation ponds exceeded the rate of wastewater production for the majority of 2018. Therefore, NMOCD approval the extension request to post-pone conducting well testing until second quarter 2019. The results of the Fall-Off Test conducted in 2019 will be submitted to NMOCD as a separate submittal.

**Area of Review (AOR)** -- Western conducted an Area of Review within a 1-mile radius of WDW #2. The results of this review are provided in Appendix E of this report.

## 1.0 INTRODUCTION

This report provides a summary of activities conducted during 2018 on Waste Disposal Well #2 (WDW #2). The disposal well was part of the Western Bloomfield Terminal facility operations. The facility is located south of Bloomfield, New Mexico in San Juan County. The physical address of the facility is as follows:

**Bloomfield Terminal**  
#50 County Road 4990  
Bloomfield, NM 87413

The Bloomfield Terminal is located on approximately 263 acres. Bordering the facility is a combination of federal and private properties. Public property managed by the Bureau of Land Management lies to the south. The majority of undeveloped land in the vicinity of the facility is used extensively for oil and gas production and, in some instances, grazing. U.S. Highway 550 is located approximately one-half mile west of the facility. The topography of the main portion of the site is generally flat with steep bluffs to the north.

### 1.1 Well Information

Well Name & Number:	Waste Disposal Well #2
OCD UIC:	UICI-011
Well Classification:	Class I Non-hazardous
API Number:	30-045-35747
Legal Location:	2028 FNL, 111 FEL, H S27 T29N R11W
Physical Address:	#50 Road 4990, Bloomfield, NM 87413

## 2.0 SUMMARY OF ACTIVITIES

The following list of activities was conducted in 2017 on WDW #2 located at the Bloomfield facility:

- 03/5/18 1<sup>st</sup> Quarter 2018 Sampling Event
- 06/29/18 2<sup>nd</sup> Quarter 2018 Sampling Event
- 9/30/18 3<sup>rd</sup> Quarter 2018 Sampling Event
- 12/28/18 4<sup>th</sup> Quarter 2018 Sampling Event
- 4/15/19 Braden Head Test
- 4/17/19-4/30/2019 Fall-Off Test

On September 29, 2019, the New Mexico Oil Conservation Division (NMOCD) granted approval to delay the testing of the Injection Well due to lack of precipitation and lower volume of wastewater effluent produced at the Bloomfield Terminal. Therefore, the 2018 testing was conducted in April 2019.

### 2.1 Well Operations

The initial start-up of WDW-2 commenced March 8, 2017. Treated wastewaters from the on-site Wastewater Treatment System (WWTS) are transferred from the on-site Aeration Ponds to WDW-2 when the well is operational. When the well pump is not operational, treated wastewaters are transferred to the on-site evaporation ponds, located on the south side of County Road 4990. A copy of the Well Schematic is provided in Figure 1.

Total injected wastewater volumes, injection pressures, injection flow rates, and annual casing pressures are continuously monitored and stored in a company database. In 2018, operation of the injection well did not exceed the permitted injection pressure limit of 1,465 psi. A summary of the 2018 operation data is provided in Table 1.

Monthly total volumes disposed of through the injection well and average injection pressure readings are reported monthly to NMOCD through the on-line C-115 reporting web-link. A total of 1,227,156 gallons of treated wastewaters were injected into WDW-2 in 2018. Copies of the C-115 Monthly Reports are provided in Appendix A. A copy of the Quarterly Injection Well Report is provided in Appendix B.



## **2.2 Quarterly Sampling and Chemical Analysis**

Samples were collected of the injection water on a quarterly basis and analyzed for the following pursuant to Permit Condition 2.A. of UICI-011 dated July 20, 2016:

- pH;
- Oxidation Reduction Potential;
- Specific Conductance;
- Specific gravity;
- Temperature;
- Major dissolved cations and anions; and
- EPA RCRA characteristically hazardous constituents.

First quarter samples were collected on March 5, 2018. Second quarter samples were collected on June 29, 2018. Third quarter samples were collected on September 30, 2018. Fourth quarter samples were collected on December 28, 2018. A summary of the analytical results is provided in Table 2.

All quarterly samples collected for laboratory analysis were submitted to Hall Environmental Analysis Laboratory located in Albuquerque, NM. The analytical results conclude that the injected water exhibit characteristics of RCRA non- hazardous waste. Copies of the laboratory reports is provided in Appendix C.

## **2.3 Well Testing and Maintenance Activities**

In addition to the conducting general preventative maintenance activities on the injection well equipment, the following testing and well maintenance activities were conducted:

- Braden Head Test

A Braden Head Test is conducted in sequence with the Annual Fall-Off Test. Due to low water volumes available to operate the Injection Well, the well remained off-line for over 350 days in 2018. Therefore, the testing of the well was delayed until April 2019. On April 15<sup>th</sup>, 2019, a representative of New Mexico Oil Conservation Division (NMOCD)

was on-site to witness the Braden Head Test. No issues were observed during mechanical testing activities. Copies of the respective Sundry Notifications are provided in Appendix D.

General routine maintenance was performed on the injection well pump. Real-time operational data which includes the injection pressure, injection flow rate, and casing pressure are logged through an on-site data logger. Operational data is also transmitted to a data historian for long-term storage. No issues were observed during routine maintenance activities in 2018.

### **3.0 WELL EVALUATION**

#### **3.1 Area of Review (AOR)**

The area of review data shows all wells known to have been drilled within a one-mile radius of WDW-1. There are 57 wells in the one-mile radius of investigation. One well, Ashcroft SWD #1, penetrates the Entrada injection zone. This well is 0.64 miles from WDW-2 and is an active water disposal well. A copy of the AOR and list of wells identified within the one-mile radius is provided as Appendix E.

#### **3.2 Pressure Fall-Off Test**

A pressure Fall-Off Test (FOT) was conducted in April 2019. The well test was conducted in accordance with United States Environmental Protection Agency (USEPA) 40 CFR 146.13 and the State of New Mexico Falloff Test Guidelines dated December 3, 2007. The FOT was conducted with tandem bottom hole pressure memory gauges. Results from the Fall-Off Test will be submitted under a separate cover letter.

#### **3.3 Bottom-Hole Pressure Survey**

A bottom-hole pressure survey was conducted following the completion of the FOT activities. The bottom-hole pressures gauges used for the FOT were pulled from the well making gradient stops every 1,000 feet. The results of the pressure survey will be provided as part of the April 2019 Fall-Off Test Report.

## FIGURES

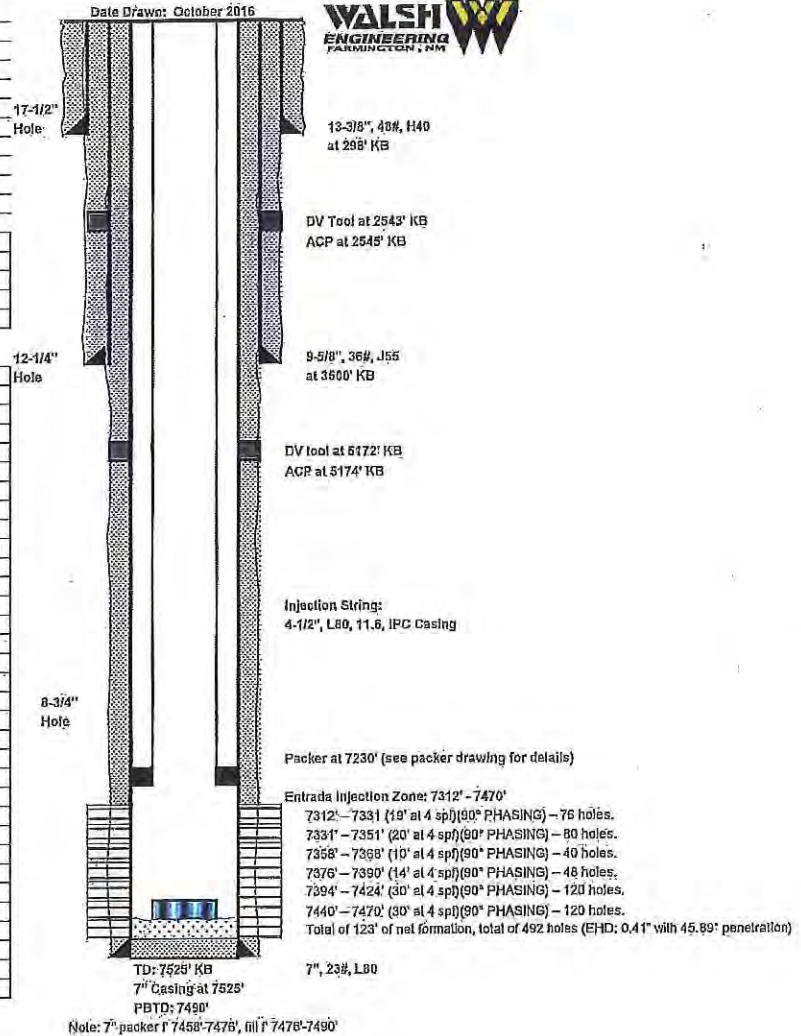
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# FIGURE 1

A wellbore diagram showing the current configuration of the wellbore.

Well/Facility:	SWD #2	Well Status:	Current
Operator:	Western Refinery	Orig Oper:	
Lease/Op Agmt:		Inj Interval:	
Field:	Entrada	API #:	
County:	San Juan	GR/KB:	14.5'
State:	NM	TD:	7525' KB
Spud:	8/15/2016	PBTD:	7490' KB
Comp. Date:		WI:	
1st Prod:		NR:	
Xmas tree:			
Surface Loc:	2028' fml & 111' fcl		
Sec-Twn-Rge:	Sec 27T29N11W		
Comments:	3/7/2017 - Started Injection/Water Disposal Operations		

Date Drawn: October 2016



## TABLES

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TABLE 1

## Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
1/1/18 12:00 AM	0	89	753	76226
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1/31/18 11:30 AM	18	Bad	852	76294
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1/31/18 12:30 PM	40	Bad	961	76312
1/31/18 1:00 PM	52	Bad	1068	76348
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1/31/18 2:30 PM	51	Bad	1117	76436
1/31/18 3:00 PM	50	Bad	1143	76472
1/31/18 3:30 PM	0	Bad	854	76474
1/31/18 4:00 PM	0	Bad	813	76474
1/31/18 4:30 PM	0	Bad	791	76474
1/31/18 5:00 PM	0	Bad	777	76474
1/31/18 5:30 PM	0	Bad	766	76474
1/31/18 6:00 PM	0	Bad	758	76474
1/31/18 6:30 PM	0	Bad	752	76474
1/31/18 7:00 PM	0	Bad	747	76474
1/31/18 7:30 PM	0	Bad	742	76474
1/31/18 8:00 PM	0	-1	739	76474
1/31/18 8:30 PM	0	0	735	76474
1/31/18 9:00 PM	0	0	732	76474
1/31/18 9:30 PM	0	1	730	76474
1/31/18 10:00 PM	0	2	727	76474
1/31/18 10:30 PM	0	2	725	76474
1/31/18 11:00 PM	0	3	723	76474
1/31/18 11:30 PM	0	4	721	76474
2/1/18 12:00 AM	0	4	720	76474
2/1/18 12:30 AM	0	5	718	76474
2/1/18 1:00 AM	0	6	717	76474
2/1/18 1:30 AM	0	6	715	76474
2/1/18 2:00 AM	0	7	714	76474
2/1/18 2:30 AM	0	8	713	76474
2/1/18 3:00 AM	0	8	712	76474
2/1/18 3:30 AM	0	9	711	76474
2/1/18 4:00 AM	0	9	710	76474
2/1/18 4:30 AM	0	10	709	76474
2/1/18 5:00 AM	0	11	708	76474
2/1/18 5:30 AM	0	11	708	76474

2/1/18 6:00 AM	0	12	707	76474
2/1/18 6:30 AM	0	13	706	76474
2/1/18 7:00 AM	0	13	705	76474
2/1/18 7:30 AM	52	13	905	76479
2/1/18 8:00 AM	52	-2	1039	76516
2/1/18 8:30 AM	52	Bad	1087	76552
2/1/18 9:00 AM	51	Bad	1116	76588
2/1/18 9:30 AM	51	Bad	1139	76624
2/1/18 10:00 AM	49	Bad	1156	76660
2/1/18 10:30 AM	50	Bad	1170	76695
2/1/18 11:00 AM	49	Bad	1184	76731
2/1/18 11:30 AM	50	Bad	1196	76766
2/1/18 12:00 PM	49	Bad	1207	76802
2/1/18 12:30 PM	49	Bad	1216	76837
2/1/18 1:00 PM	50	Bad	1224	76872
2/1/18 1:30 PM	49	Bad	1232	76907
2/1/18 2:00 PM	50	Bad	1239	76942
2/1/18 2:30 PM	50	Bad	1247	76977
2/1/18 3:00 PM	0	-1	1069	77005
2/1/18 3:30 PM	0	0	957	77005
2/1/18 4:00 PM	0	1	918	77005
2/1/18 4:30 PM	0	2	895	77005
2/1/18 5:00 PM	0	3	877	77005
2/1/18 5:30 PM	0	4	864	77005
2/1/18 6:00 PM	0	5	852	77005
2/1/18 6:30 PM	0	6	843	77005
2/1/18 7:00 PM	0	7	835	77005
2/1/18 7:30 PM	0	8	827	77005
2/1/18 8:00 PM	0	9	821	77005
2/1/18 8:30 PM	0	10	815	77005
2/1/18 9:00 PM	0	11	810	77005
2/1/18 9:30 PM	0	12	806	77005
2/1/18 10:00 PM	0	13	802	77005
2/1/18 10:30 PM	0	14	798	77005
2/1/18 11:00 PM	0	15	794	77005
2/1/18 11:30 PM	0	16	791	77005
2/2/18 12:00 AM	0	17	788	77005
2/2/18 12:30 AM	0	18	785	77005
2/2/18 1:00 AM	0	19	782	77005
2/2/18 1:30 AM	0	20	780	77005
2/2/18 2:00 AM	0	21	778	77005
2/2/18 2:30 AM	0	22	776	77005
2/2/18 3:00 AM	0	23	773	77005
2/2/18 3:30 AM	0	24	771	77005
2/2/18 4:00 AM	0	25	769	77005
2/2/18 4:30 AM	0	26	768	77005
2/2/18 5:00 AM	0	27	766	77005

2/2/18 5:30 AM	0	27	764	77005
2/2/18 6:00 AM	0	28	763	77005
2/2/18 6:30 AM	0	29	761	77005
2/2/18 7:00 AM	0	30	760	77005
2/2/18 7:30 AM	0	31	758	77005
2/2/18 8:00 AM	0	32	758	77005
2/2/18 8:30 AM	0	33	756	77005
2/2/18 9:00 AM	0	33	755	77005
2/2/18 9:30 AM	0	34	754	77005
2/2/18 10:00 AM	0	35	752	77005
2/2/18 10:30 AM	0	36	751	77005
2/2/18 11:00 AM	0	37	750	77005
2/2/18 11:30 AM	0	37	749	77005
2/2/18 12:00 PM	0	38	748	77005
2/2/18 12:30 PM	0	39	747	77005
2/2/18 1:00 PM	0	40	746	77005
2/2/18 1:30 PM	0	40	745	77005
2/2/18 2:00 PM	0	41	744	77005
2/2/18 2:30 PM	0	42	743	77005
2/2/18 3:00 PM	0	43	742	77005
2/2/18 3:30 PM	0	43	742	77005
2/2/18 4:00 PM	0	44	741	77005
2/2/18 4:30 PM	0	45	740	77005
2/2/18 5:00 PM	0	45	739	77005
2/2/18 5:30 PM	0	46	738	77005
2/2/18 6:00 PM	0	47	738	77005
2/2/18 6:30 PM	0	47	737	77005
2/2/18 7:00 PM	0	48	737	77005
2/2/18 7:30 PM	0	49	736	77005
2/2/18 8:00 PM	0	49	735	77005
2/2/18 8:30 PM	0	50	735	77005
2/2/18 9:00 PM	0	50	734	77005
2/2/18 9:30 PM	0	51	733	77005
2/2/18 10:00 PM	0	51	733	77005
2/2/18 10:30 PM	0	52	732	77005
2/2/18 11:00 PM	0	53	732	77005
2/2/18 11:30 PM	0	53	731	77005
2/3/18 12:00 AM	0	54	730	77005
2/3/18 12:30 AM	0	54	730	77005
2/3/18 1:00 AM	0	55	729	77005
2/3/18 1:30 AM	0	55	729	77005
2/3/18 2:00 AM	0	56	728	77005
2/3/18 2:30 AM	0	56	728	77005
2/3/18 3:00 AM	0	57	727	77005
2/3/18 3:30 AM	0	57	727	77005
2/3/18 4:00 AM	0	58	726	77005
2/3/18 4:30 AM	0	58	726	77005



2/3/18 5:00 AM	0	58	725	77005
2/3/18 5:30 AM	0	59	725	77005
2/3/18 6:00 AM	0	59	724	77005
2/3/18 6:30 AM	0	60	724	77005
2/3/18 7:00 AM	0	60	724	77005
2/3/18 7:30 AM	0	61	724	77005
2/3/18 8:00 AM	0	61	724	77005
2/3/18 8:30 AM	0	61	723	77005
2/3/18 9:00 AM	0	62	723	77005
2/3/18 9:30 AM	0	62	722	77005
2/3/18 10:00 AM	0	63	721	77005
2/3/18 10:30 AM	0	63	721	77005
2/3/18 11:00 AM	0	64	721	77005
2/3/18 11:30 AM	0	64	720	77005
2/3/18 12:00 PM	0	65	720	77005
2/3/18 12:30 PM	0	65	719	77005
2/3/18 1:00 PM	0	65	719	77005
2/3/18 1:30 PM	0	66	719	77005
2/3/18 2:00 PM	0	66	718	77005
2/3/18 2:30 PM	0	67	718	77005
2/3/18 3:00 PM	0	67	717	77005
2/3/18 3:30 PM	0	68	717	77005
2/3/18 4:00 PM	0	68	717	77005
2/3/18 4:30 PM	0	68	716	77005
2/3/18 5:00 PM	0	69	716	77005
2/3/18 5:30 PM	0	69	716	77005
2/3/18 6:00 PM	0	69	715	77005
2/3/18 6:30 PM	0	70	715	77005
2/3/18 7:00 PM	0	70	715	77005
2/3/18 7:30 PM	0	70	715	77005
2/3/18 8:00 PM	0	71	714	77005
2/3/18 8:30 PM	0	71	714	77005
2/3/18 9:00 PM	0	71	714	77005
2/3/18 9:30 PM	0	72	714	77005
2/3/18 10:00 PM	0	72	713	77005
2/3/18 10:30 PM	0	72	713	77005
2/3/18 11:00 PM	0	73	713	77005
2/3/18 11:30 PM	0	73	712	77005
2/4/18 12:00 AM	0	73	712	77005
2/4/18 12:30 AM	0	73	712	77005
2/4/18 1:00 AM	0	74	711	77005
2/4/18 1:30 AM	0	74	711	77005
2/4/18 2:00 AM	0	74	711	77005
2/4/18 2:30 AM	0	74	711	77005
2/4/18 3:00 AM	0	75	710	77005
2/4/18 3:30 AM	0	75	710	77005
2/4/18 4:00 AM	0	75	710	77005

2/4/18 4:30 AM	0	75	710	77005
2/4/18 5:00 AM	0	76	709	77005
2/4/18 5:30 AM	0	76	709	77005
2/4/18 6:00 AM	0	76	709	77005
2/4/18 6:30 AM	0	76	709	77005
2/4/18 7:00 AM	0	77	708	77005
2/4/18 7:30 AM	0	77	708	77005
2/4/18 8:00 AM	0	77	709	77005
2/4/18 8:30 AM	0	77	708	77005
2/4/18 9:00 AM	0	77	708	77005
2/4/18 9:30 AM	0	78	708	77005
2/4/18 10:00 AM	0	78	707	77005
2/4/18 10:30 AM	0	78	707	77005
2/4/18 11:00 AM	0	79	707	77005
2/4/18 11:30 AM	0	79	707	77005
2/4/18 12:00 PM	0	79	706	77005
2/4/18 12:30 PM	0	80	706	77005
2/4/18 1:00 PM	0	80	706	77005
2/4/18 1:30 PM	0	80	706	77005
2/4/18 2:00 PM	0	80	705	77005
2/4/18 2:30 PM	0	81	705	77005
2/4/18 3:00 PM	0	81	705	77005
2/4/18 3:30 PM	0	81	705	77005
2/4/18 4:00 PM	0	82	704	77005
2/4/18 4:30 PM	0	82	704	77005
2/4/18 5:00 PM	0	82	704	77005
2/4/18 5:30 PM	0	82	704	77005
2/4/18 6:00 PM	0	83	704	77005
2/4/18 6:30 PM	0	83	703	77005
2/4/18 7:00 PM	0	83	703	77005
2/4/18 7:30 PM	0	83	703	77005
2/4/18 8:00 PM	0	83	703	77005
2/4/18 8:30 PM	0	84	703	77005
2/4/18 9:00 PM	0	84	703	77005
2/4/18 9:30 PM	0	84	703	77005
2/4/18 10:00 PM	0	84	702	77005
2/4/18 10:30 PM	0	84	702	77005
2/4/18 11:00 PM	0	84	702	77005
2/4/18 11:30 PM	0	85	702	77005
2/5/18 12:00 AM	0	85	702	77005
2/5/18 12:30 AM	0	85	701	77005
2/5/18 1:00 AM	0	85	701	77005
2/5/18 1:30 AM	0	85	701	77005
2/5/18 2:00 AM	0	85	701	77005
2/5/18 2:30 AM	0	85	701	77005
2/5/18 3:00 AM	0	86	701	77005
2/5/18 3:30 AM	0	86	700	77005

2/5/18 4:00 AM	0	86	700	77005
2/5/18 4:30 AM	0	86	700	77005
2/5/18 5:00 AM	0	86	700	77005
2/5/18 5:30 AM	0	86	700	77005
2/5/18 6:00 AM	0	86	699	77005
2/5/18 6:30 AM	0	86	699	77005
2/5/18 7:00 AM	0	87	699	77005
2/5/18 7:30 AM	0	87	699	77005
2/5/18 8:00 AM	76	20	1154	77049
2/5/18 8:30 AM	76	5	1230	77104
2/5/18 9:00 AM	72	2	1259	77155
2/5/18 9:30 AM	68	0	1271	77207
2/5/18 10:00 AM	68	-1	1287	77255
2/5/18 10:30 AM	69	-2	1306	77304
2/5/18 11:00 AM	67	-2	1319	77353
2/5/18 11:30 AM	37	-2	1199	77384
2/5/18 12:00 PM	38	-2	1231	77419
2/5/18 12:30 PM	36	-2	1170	77450
2/5/18 1:00 PM	40	-2	1226	77487
2/5/18 1:30 PM	40	-2	1238	77521
2/5/18 2:00 PM	76	-2	1211	77552
2/5/18 2:30 PM	35	-2	1204	77586
2/5/18 3:00 PM	68	-2	1264	77620
2/5/18 3:30 PM	71	-2	1272	77651
2/5/18 4:00 PM	35	-2	1242	77685
2/5/18 4:30 PM	59	-2	1282	77717
2/5/18 5:00 PM	33	-2	1220	77749
2/5/18 5:30 PM	56	-2	1287	77783
2/5/18 6:00 PM	35	-2	1261	77816
2/5/18 6:30 PM	52	-2	1289	77848
2/5/18 7:00 PM	34	-2	1256	77881
2/5/18 7:30 PM	50	-2	1288	77914
2/5/18 8:00 PM	48	-2	1294	77947
2/5/18 8:30 PM	48	-2	1293	77979
2/5/18 9:00 PM	39	-2	1290	78011
2/5/18 9:30 PM	46	-2	1294	78042
2/5/18 10:00 PM	45	-2	1291	78074
2/5/18 10:30 PM	42	-2	1300	78105
2/5/18 11:00 PM	44	-2	1297	78136
2/5/18 11:30 PM	42	-2	1295	78166
2/6/18 12:00 AM	41	-2	1298	78196
2/6/18 12:30 AM	41	-2	1296	78225
2/6/18 1:00 AM	41	-2	1296	78254
2/6/18 1:30 AM	39	-2	1299	78283
2/6/18 2:00 AM	39	-2	1294	78312
2/6/18 2:30 AM	38	-2	1301	78340
2/6/18 3:00 AM	38	-2	1299	78368

2/6/18 3:30 AM	40	-2	1302	78395
2/6/18 4:00 AM	37	-2	1299	78422
2/6/18 4:30 AM	36	-2	1298	78449
2/6/18 5:00 AM	36	-2	1300	78476
2/6/18 5:30 AM	36	-2	1302	78503
2/6/18 6:00 AM	36	-2	1301	78529
2/6/18 6:30 AM	37	-2	1297	78556
2/6/18 7:00 AM	36	-2	1299	78582
2/6/18 7:30 AM	39	-2	1328	78611
2/6/18 8:00 AM	50	-2	1378	78648
2/6/18 8:30 AM	50	-3	1380	78684
2/6/18 9:00 AM	47	-3	1381	78718
2/6/18 9:30 AM	48	-3	1382	78752
2/6/18 10:00 AM	47	-3	1384	78785
2/6/18 10:30 AM	47	-3	1381	78817
2/6/18 11:00 AM	44	-3	1384	78849
2/6/18 11:30 AM	47	-3	1393	78882
2/6/18 12:00 PM	47	-3	1396	78915
2/6/18 12:30 PM	42	-3	1376	78945
2/6/18 1:00 PM	42	-3	1379	78974
2/6/18 1:30 PM	43	-3	1378	79004
2/6/18 2:00 PM	38	-3	1376	79033
2/6/18 2:30 PM	42	-3	1375	79062
2/6/18 3:00 PM	0	-2	1180	79076
2/6/18 3:30 PM	0	-2	1119	79076
2/6/18 4:00 PM	0	-1	1089	79076
2/6/18 4:30 PM	0	0	1068	79076
2/6/18 5:00 PM	0	0	1052	79076
2/6/18 5:30 PM	0	1	1038	79076
2/6/18 6:00 PM	0	2	1026	79076
2/6/18 6:30 PM	0	2	1015	79076
2/6/18 7:00 PM	0	3	1006	79076
2/6/18 7:30 PM	0	3	997	79076
2/6/18 8:00 PM	0	4	989	79076
2/6/18 8:30 PM	0	5	982	79076
2/6/18 9:00 PM	0	5	975	79076
2/6/18 9:30 PM	0	6	969	79076
2/6/18 10:00 PM	0	6	963	79076
2/6/18 10:30 PM	0	7	958	79076
2/6/18 11:00 PM	0	7	953	79076
2/6/18 11:30 PM	0	8	948	79076
2/7/18 12:00 AM	0	9	943	79076
2/7/18 12:30 AM	0	9	939	79076
2/7/18 1:00 AM	0	9	935	79076
2/7/18 1:30 AM	0	10	931	79076
2/7/18 2:00 AM	0	11	928	79076
2/7/18 2:30 AM	0	11	924	79076

2/7/18 3:00 AM	0	12	921	79076
2/7/18 3:30 AM	0	12	917	79076
2/7/18 4:00 AM	0	13	914	79076
2/7/18 4:30 AM	0	13	911	79076
2/7/18 5:00 AM	0	13	908	79076
2/7/18 5:30 AM	0	14	905	79076
2/7/18 6:00 AM	0	14	903	79076
2/7/18 6:30 AM	0	15	900	79076
2/7/18 7:00 AM	0	15	897	79076
2/7/18 7:30 AM	0	16	895	79076
2/7/18 8:00 AM	0	16	893	79076
2/7/18 8:30 AM	0	17	891	79076
2/7/18 9:00 AM	0	17	888	79076
2/7/18 9:30 AM	0	18	886	79076
2/7/18 10:00 AM	0	18	884	79076
2/7/18 10:30 AM	0	19	882	79076
2/7/18 11:00 AM	0	19	880	79076
2/7/18 11:30 AM	0	19	878	79076
2/7/18 12:00 PM	0	20	876	79076
2/7/18 12:30 PM	0	20	874	79076
2/7/18 1:00 PM	0	21	872	79076
2/7/18 1:30 PM	0	21	870	79076
2/7/18 2:00 PM	0	22	869	79076
2/7/18 2:30 PM	0	22	867	79076
2/7/18 3:00 PM	0	22	865	79076
2/7/18 3:30 PM	0	23	864	79076
2/7/18 4:00 PM	0	23	862	79076
2/7/18 4:30 PM	0	24	860	79076
2/7/18 5:00 PM	0	24	859	79076
2/7/18 5:30 PM	0	25	857	79076
2/7/18 6:00 PM	0	25	856	79076
2/7/18 6:30 PM	0	25	855	79076
2/7/18 7:00 PM	0	26	853	79076
2/7/18 7:30 PM	0	26	852	79076
2/7/18 8:00 PM	0	27	851	79076
2/7/18 8:30 PM	0	27	850	79076
2/7/18 9:00 PM	0	27	848	79076
2/7/18 9:30 PM	0	28	847	79076
2/7/18 10:00 PM	0	28	846	79076
2/7/18 10:30 PM	0	28	845	79076
2/7/18 11:00 PM	0	29	844	79076
2/7/18 11:30 PM	0	29	842	79076
2/8/18 12:00 AM	0	29	841	79076
2/8/18 12:30 AM	0	30	840	79076
2/8/18 1:00 AM	0	30	839	79076
2/8/18 1:30 AM	0	31	838	79076
2/8/18 2:00 AM	0	31	837	79076

2/8/18 2:30 AM	0	31	836	79076
2/8/18 3:00 AM	0	31	835	79076
2/8/18 3:30 AM	0	32	834	79076
2/8/18 4:00 AM	0	32	833	79076
2/8/18 4:30 AM	0	32	832	79076
2/8/18 5:00 AM	0	33	831	79076
2/8/18 5:30 AM	0	33	830	79076
2/8/18 6:00 AM	0	33	829	79076
2/8/18 6:30 AM	0	34	828	79076
2/8/18 7:00 AM	0	34	827	79076
2/8/18 7:30 AM	48	31	1028	79083
2/8/18 8:00 AM	39	12	1097	79115
2/8/18 8:30 AM	55	6	1168	79146
2/8/18 9:00 AM	48	3	1193	79181
2/8/18 9:30 AM	46	1	1214	79216
2/8/18 10:00 AM	46	0	1223	79249
2/8/18 10:30 AM	47	0	1233	79282
2/8/18 11:00 AM	48	-1	1254	79317
2/8/18 11:30 AM	58	-1	1284	79350
2/8/18 12:00 PM	49	-2	1290	79386
2/8/18 12:30 PM	51	-2	1309	79424
2/8/18 1:00 PM	49	-2	1314	79459
2/8/18 1:30 PM	47	-2	1313	79494
2/8/18 2:00 PM	47	-2	1313	79527
2/8/18 2:30 PM	45	-2	1320	79562
2/8/18 3:00 PM	47	-2	1327	79595
2/8/18 3:30 PM	50	-2	1348	79631
2/8/18 4:00 PM	48	-2	1349	79665
2/8/18 4:30 PM	45	-2	1346	79699
2/8/18 5:00 PM	47	-2	1347	79732
2/8/18 5:30 PM	43	-2	1349	79765
2/8/18 6:00 PM	46	-2	1351	79797
2/8/18 6:30 PM	44	-2	1349	79828
2/8/18 7:00 PM	42	-2	1350	79859
2/8/18 7:30 PM	43	-2	1350	79889
2/8/18 8:00 PM	41	-2	1353	79920
2/8/18 8:30 PM	41	-2	1352	79949
2/8/18 9:00 PM	44	-2	1355	79979
2/8/18 9:30 PM	39	-2	1351	80008
2/8/18 10:00 PM	40	-2	1352	80036
2/8/18 10:30 PM	40	-2	1354	80065
2/8/18 11:00 PM	39	-2	1354	80093
2/8/18 11:30 PM	38	-2	1353	80120
2/9/18 12:00 AM	37	-2	1355	80147
2/9/18 12:30 AM	39	-2	1353	80175
2/9/18 1:00 AM	38	-2	1353	80202
2/9/18 1:30 AM	38	-2	1353	80228

2/9/18 2:00 AM	39	-2	1356	80255
2/9/18 2:30 AM	36	-2	1354	80282
2/9/18 3:00 AM	36	-2	1355	80308
2/9/18 3:30 AM	35	-2	1355	80334
2/9/18 4:00 AM	33	-2	1356	80360
2/9/18 4:30 AM	36	-2	1356	80385
2/9/18 5:00 AM	34	-2	1358	80411
2/9/18 5:30 AM	35	-2	1357	80436
2/9/18 6:00 AM	35	-2	1354	80461
2/9/18 6:30 AM	36	-2	1361	80486
2/9/18 7:00 AM	34	-2	1353	80511
2/9/18 7:30 AM	36	-2	1374	80537
2/9/18 8:00 AM	36	-2	1371	80563
2/9/18 8:30 AM	35	-2	1368	80589
2/9/18 9:00 AM	34	-2	1368	80615
2/9/18 9:30 AM	35	-2	1372	80640
2/9/18 10:00 AM	34	-2	1373	80665
2/9/18 10:30 AM	37	-2	1374	80690
2/9/18 11:00 AM	36	-2	1375	80715
2/9/18 11:30 AM	34	-2	1372	80739
2/9/18 12:00 PM	35	-2	1373	80764
2/9/18 12:30 PM	34	-2	1373	80788
2/9/18 1:00 PM	37	-2	1383	80813
2/9/18 1:30 PM	35	-2	1381	80838
2/9/18 2:00 PM	33	-2	1379	80863
2/9/18 2:30 PM	30	-2	1365	80887
2/9/18 3:00 PM	36	-2	1383	80911
2/9/18 3:30 PM	35	-2	1382	80935
2/9/18 4:00 PM	33	-2	1380	80959
2/9/18 4:30 PM	33	-2	1384	80983
2/9/18 5:00 PM	0	-2	1192	80989
2/9/18 5:30 PM	0	-1	1151	80989
2/9/18 6:00 PM	0	-1	1128	80989
2/9/18 6:30 PM	0	0	1111	80989
2/9/18 7:00 PM	0	1	1098	80989
2/9/18 7:30 PM	0	1	1086	80989
2/9/18 8:00 PM	0	2	1076	80989
2/9/18 8:30 PM	0	2	1067	80989
2/9/18 9:00 PM	0	3	1059	80989
2/9/18 9:30 PM	0	3	1051	80989
2/9/18 10:00 PM	0	4	1045	80989
2/9/18 10:30 PM	0	4	1038	80989
2/9/18 11:00 PM	0	5	1032	80989
2/9/18 11:30 PM	0	5	1027	80989
2/10/18 12:00 AM	0	6	1022	80989
2/10/18 12:30 AM	0	6	1017	80989
2/10/18 1:00 AM	0	7	1012	80989

2/10/18 1:30 AM	0	7	1008	80989
2/10/18 2:00 AM	0	8	1004	80989
2/10/18 2:30 AM	0	8	1000	80989
2/10/18 3:00 AM	0	9	996	80989
2/10/18 3:30 AM	0	9	992	80989
2/10/18 4:00 AM	0	9	989	80989
2/10/18 4:30 AM	0	10	985	80989
2/10/18 5:00 AM	0	10	982	80989
2/10/18 5:30 AM	0	10	979	80989
2/10/18 6:00 AM	0	11	976	80989
2/10/18 6:30 AM	0	11	973	80989
2/10/18 7:00 AM	0	12	970	80989
2/10/18 7:30 AM	0	12	968	80989
2/10/18 8:00 AM	0	12	965	80989
2/10/18 8:30 AM	0	13	963	80989
2/10/18 9:00 AM	0	13	960	80989
2/10/18 9:30 AM	0	13	958	80989
2/10/18 10:00 AM	0	14	955	80989
2/10/18 10:30 AM	0	14	953	80989
2/10/18 11:00 AM	0	15	951	80989
2/10/18 11:30 AM	0	15	949	80989
2/10/18 12:00 PM	0	15	946	80989
2/10/18 12:30 PM	0	16	944	80989
2/10/18 1:00 PM	0	16	942	80989
2/10/18 1:30 PM	0	16	940	80989
2/10/18 2:00 PM	0	17	938	80989
2/10/18 2:30 PM	0	17	937	80989
2/10/18 3:00 PM	0	17	935	80989
2/10/18 3:30 PM	0	18	933	80989
2/10/18 4:00 PM	0	18	931	80989
2/10/18 4:30 PM	0	18	930	80989
2/10/18 5:00 PM	0	19	928	80989
2/10/18 5:30 PM	0	19	926	80989
2/10/18 6:00 PM	0	19	925	80989
2/10/18 6:30 PM	0	20	923	80989
2/10/18 7:00 PM	0	20	922	80989
2/10/18 7:30 PM	0	20	920	80989
2/10/18 8:00 PM	0	20	919	80989
2/10/18 8:30 PM	0	21	917	80989
2/10/18 9:00 PM	0	21	916	80989
2/10/18 9:30 PM	0	21	914	80989
2/10/18 10:00 PM	0	22	913	80989
2/10/18 10:30 PM	0	22	912	80989
2/10/18 11:00 PM	0	22	910	80989
2/10/18 11:30 PM	0	22	909	80989
2/11/18 12:00 AM	0	23	908	80989
2/11/18 12:30 AM	0	23	906	80989



2/11/18 1:00 AM	0	23	905	80989
2/11/18 1:30 AM	0	24	904	80989
2/11/18 2:00 AM	0	24	903	80989
2/11/18 2:30 AM	0	24	902	80989
2/11/18 3:00 AM	0	24	900	80989
2/11/18 3:30 AM	0	25	899	80989
2/11/18 4:00 AM	0	25	898	80989
2/11/18 4:30 AM	0	25	897	80989
2/11/18 5:00 AM	0	25	896	80989
2/11/18 5:30 AM	0	26	895	80989
2/11/18 6:00 AM	0	26	894	80989
2/11/18 6:30 AM	0	26	893	80989
2/11/18 7:00 AM	0	26	891	80989
2/11/18 7:30 AM	0	27	891	80989
2/11/18 8:00 AM	0	27	890	80989
2/11/18 8:30 AM	0	27	889	80989
2/11/18 9:00 AM	0	27	888	80989
2/11/18 9:30 AM	0	28	887	80989
2/11/18 10:00 AM	0	28	885	80989
2/11/18 10:30 AM	0	28	884	80989
2/11/18 11:00 AM	0	28	883	80989
2/11/18 11:30 AM	0	29	882	80989
2/11/18 12:00 PM	0	29	882	80989
2/11/18 12:30 PM	0	29	880	80989
2/11/18 1:00 PM	0	29	880	80989
2/11/18 1:30 PM	0	30	879	80989
2/11/18 2:00 PM	0	30	878	80989
2/11/18 2:30 PM	0	30	877	80989
2/11/18 3:00 PM	0	30	876	80989
2/11/18 3:30 PM	0	31	875	80989
2/11/18 4:00 PM	0	31	874	80989
2/11/18 4:30 PM	0	31	873	80989
2/11/18 5:00 PM	0	31	873	80989
2/11/18 5:30 PM	0	32	872	80989
2/11/18 6:00 PM	0	32	871	80989
2/11/18 6:30 PM	0	32	870	80989
2/11/18 7:00 PM	0	32	870	80989
2/11/18 7:30 PM	0	33	869	80989
2/11/18 8:00 PM	0	33	868	80989
2/11/18 8:30 PM	0	33	867	80989
2/11/18 9:00 PM	0	33	867	80989
2/11/18 9:30 PM	0	33	866	80989
2/11/18 10:00 PM	0	34	865	80989
2/11/18 10:30 PM	0	34	864	80989
2/11/18 11:00 PM	0	34	864	80989
2/11/18 11:30 PM	0	34	863	80989
2/12/18 12:00 AM	0	34	862	80989

2/12/18 12:30 AM	0	35	862	80989
2/12/18 1:00 AM	0	35	861	80989
2/12/18 1:30 AM	0	35	860	80989
2/12/18 2:00 AM	0	35	859	80989
2/12/18 2:30 AM	0	35	859	80989
2/12/18 3:00 AM	0	36	858	80989
2/12/18 3:30 AM	0	36	857	80989
2/12/18 4:00 AM	0	36	857	80989
2/12/18 4:30 AM	0	36	856	80989
2/12/18 5:00 AM	0	36	855	80989
2/12/18 5:30 AM	0	37	855	80989
2/12/18 6:00 AM	0	37	854	80989
2/12/18 6:30 AM	0	37	853	80989
2/12/18 7:00 AM	0	37	853	80989
2/12/18 7:30 AM	40	38	984	80991
2/12/18 8:00 AM	40	15	1126	81022
2/12/18 8:30 AM	38	8	1133	81049
2/12/18 9:00 AM	37	5	1156	81075
2/12/18 9:30 AM	34	3	1160	81100
2/12/18 10:00 AM	36	2	1161	81124
2/12/18 10:30 AM	51	1	1268	81163
2/12/18 11:00 AM	46	0	1277	81198
2/12/18 11:30 AM	45	-1	1273	81230
2/12/18 12:00 PM	42	-1	1277	81262
2/12/18 12:30 PM	39	-1	1276	81292
2/12/18 1:00 PM	41	-2	1281	81321
2/12/18 1:30 PM	38	-2	1277	81349
2/12/18 2:00 PM	44	-2	1299	81378
2/12/18 2:30 PM	42	-2	1303	81408
2/12/18 3:00 PM	44	-2	1321	81439
2/12/18 3:30 PM	41	-2	1321	81470
2/12/18 4:00 PM	41	-2	1321	81500
2/12/18 4:30 PM	42	-2	1325	81529
2/12/18 5:00 PM	40	-2	1328	81557
2/12/18 5:30 PM	40	-2	1323	81585
2/12/18 6:00 PM	40	-2	1324	81613
2/12/18 6:30 PM	38	-2	1325	81640
2/12/18 7:00 PM	36	-2	1328	81667
2/12/18 7:30 PM	36	-2	1323	81693
2/12/18 8:00 PM	37	-2	1326	81719
2/12/18 8:30 PM	34	-2	1327	81745
2/12/18 9:00 PM	37	-2	1327	81771
2/12/18 9:30 PM	36	-2	1330	81796
2/12/18 10:00 PM	38	-2	1335	81821
2/12/18 10:30 PM	35	-2	1336	81847
2/12/18 11:00 PM	33	-2	1334	81873
2/12/18 11:30 PM	35	-2	1335	81898

2/13/18 12:00 AM	36	-2	1337	81923
2/13/18 12:30 AM	33	-2	1337	81947
2/13/18 1:00 AM	35	-2	1342	81972
2/13/18 1:30 AM	34	-2	1339	81996
2/13/18 2:00 AM	32	-2	1333	82019
2/13/18 2:30 AM	33	-2	1342	82043
2/13/18 3:00 AM	32	-2	1338	82067
2/13/18 3:30 AM	29	-2	1318	82087
2/13/18 4:00 AM	33	-2	1340	82111
2/13/18 4:30 AM	33	-2	1343	82134
2/13/18 5:00 AM	31	-2	1337	82157
2/13/18 5:30 AM	32	-2	1339	82180
2/13/18 6:00 AM	30	-2	1337	82203
2/13/18 6:30 AM	31	-2	1339	82225
2/13/18 7:00 AM	31	-2	1342	82247
2/13/18 7:30 AM	36	-2	1359	82271
2/13/18 8:00 AM	34	-2	1360	82295
2/13/18 8:30 AM	33	-2	1358	82318
2/13/18 9:00 AM	35	-2	1364	82343
2/13/18 9:30 AM	35	-2	1369	82367
2/13/18 10:00 AM	35	-2	1366	82391
2/13/18 10:30 AM	33	-2	1370	82414
2/13/18 11:00 AM	32	-2	1370	82438
2/13/18 11:30 AM	33	-2	1372	82462
2/13/18 12:00 PM	31	-2	1369	82485
2/13/18 12:30 PM	32	-2	1371	82508
2/13/18 1:00 PM	32	-2	1373	82531
2/13/18 1:30 PM	30	-2	1369	82554
2/13/18 2:00 PM	30	-2	1371	82576
2/13/18 2:30 PM	32	-2	1371	82599
2/13/18 3:00 PM	30	-2	1365	82620
2/13/18 3:30 PM	29	-2	1359	82641
2/13/18 4:00 PM	28	-2	1359	82661
2/13/18 4:30 PM	28	-2	1358	82682
2/13/18 5:00 PM	28	-2	1360	82702
2/13/18 5:30 PM	30	-2	1360	82722
2/13/18 6:00 PM	30	-2	1362	82743
2/13/18 6:30 PM	31	-2	1374	82764
2/13/18 7:00 PM	32	-2	1378	82786
2/13/18 7:30 PM	30	-2	1376	82807
2/13/18 8:00 PM	28	-2	1375	82828
2/13/18 8:30 PM	29	-2	1375	82850
2/13/18 9:00 PM	29	-2	1376	82870
2/13/18 9:30 PM	29	-2	1377	82891
2/13/18 10:00 PM	29	-2	1374	82912
2/13/18 10:30 PM	29	-2	1376	82932
2/13/18 11:00 PM	28	-2	1378	82953

2/13/18 11:30 PM	28	-2	1376	82973
2/14/18 12:00 AM	26	-2	1376	82993
2/14/18 12:30 AM	27	-2	1374	83013
2/14/18 1:00 AM	30	-2	1376	83033
2/14/18 1:30 AM	27	-2	1379	83053
2/14/18 2:00 AM	29	-2	1376	83073
2/14/18 2:30 AM	28	-2	1377	83092
2/14/18 3:00 AM	27	-2	1376	83112
2/14/18 3:30 AM	28	-2	1374	83131
2/14/18 4:00 AM	27	-2	1375	83151
2/14/18 4:30 AM	28	-2	1375	83170
2/14/18 5:00 AM	26	-2	1375	83190
2/14/18 5:30 AM	27	-2	1376	83209
2/14/18 6:00 AM	26	-2	1373	83228
2/14/18 6:30 AM	25	-2	1378	83247
2/14/18 7:00 AM	27	-2	1374	83266
2/14/18 7:30 AM	0	-2	1249	83280
2/14/18 8:00 AM	0	-1	1186	83280
2/14/18 8:30 AM	0	0	1161	83280
2/14/18 9:00 AM	0	0	1144	83280
2/14/18 9:30 AM	0	1	1131	83280
2/14/18 10:00 AM	0	1	1120	83280
2/14/18 10:30 AM	0	2	1110	83280
2/14/18 11:00 AM	0	2	1102	83280
2/14/18 11:30 AM	0	3	1094	83280
2/14/18 12:00 PM	0	3	1087	83280
2/14/18 12:30 PM	0	4	1081	83280
2/14/18 1:00 PM	0	4	1075	83280
2/14/18 1:30 PM	0	5	1069	83280
2/14/18 2:00 PM	0	5	1064	83280
2/14/18 2:30 PM	0	6	1060	83280
2/14/18 3:00 PM	0	6	1055	83280
2/14/18 3:30 PM	0	6	1051	83280
2/14/18 4:00 PM	0	7	1047	83280
2/14/18 4:30 PM	0	7	1043	83280
2/14/18 5:00 PM	0	8	1039	83280
2/14/18 5:30 PM	0	8	1036	83280
2/14/18 6:00 PM	0	8	1032	83280
2/14/18 6:30 PM	0	9	1029	83280
2/14/18 7:00 PM	0	9	1026	83280
2/14/18 7:30 PM	0	9	1023	83280
2/14/18 8:00 PM	0	10	1020	83280
2/14/18 8:30 PM	0	10	1017	83280
2/14/18 9:00 PM	0	10	1014	83280
2/14/18 9:30 PM	0	11	1012	83280
2/14/18 10:00 PM	0	11	1009	83280
2/14/18 10:30 PM	0	11	1006	83280

2/14/18 11:00 PM	0	12	1004	83280
2/14/18 11:30 PM	0	12	1002	83280
2/15/18 12:00 AM	0	12	999	83280
2/15/18 12:30 AM	0	13	997	83280
2/15/18 1:00 AM	0	13	995	83280
2/15/18 1:30 AM	0	13	993	83280
2/15/18 2:00 AM	0	13	991	83280
2/15/18 2:30 AM	0	14	989	83280
2/15/18 3:00 AM	0	14	987	83280
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2/15/18 4:30 AM	0	15	981	83280
2/15/18 5:00 AM	0	15	979	83280
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2/15/18 6:00 AM	0	16	976	83280
2/15/18 6:30 AM	0	16	974	83280
2/15/18 7:00 AM	0	16	972	83280
2/15/18 7:30 AM	0	17	971	83280
2/15/18 8:00 AM	36	12	1185	83296
2/15/18 8:30 AM	40	6	1253	83323
2/15/18 9:00 AM	36	4	1255	83349
2/15/18 9:30 AM	32	2	1255	83372
2/15/18 10:00 AM	29	2	1260	83394
2/15/18 10:30 AM	49	1	1355	83422
2/15/18 11:00 AM	43	0	1356	83454
2/15/18 11:30 AM	42	-1	1358	83484
2/15/18 12:00 PM	40	-1	1359	83512
2/15/18 12:30 PM	36	-1	1360	83540
2/15/18 1:00 PM	41	-1	1368	83567
2/15/18 1:30 PM	38	-2	1367	83594
2/15/18 2:00 PM	36	-2	1373	83620
2/15/18 2:30 PM	37	-2	1372	83646
2/15/18 3:00 PM	35	-2	1377	83672
2/15/18 3:30 PM	32	-2	1375	83698
2/15/18 4:00 PM	36	-2	1377	83722
2/15/18 4:30 PM	34	-2	1377	83747
2/15/18 5:00 PM	34	-2	1376	83771
2/15/18 5:30 PM	34	-2	1377	83795
2/15/18 6:00 PM	34	-2	1378	83818
2/15/18 6:30 PM	32	-2	1374	83841
2/15/18 7:00 PM	32	-2	1379	83864
2/15/18 7:30 PM	29	-2	1379	83887
2/15/18 8:00 PM	31	-2	1378	83909
2/15/18 8:30 PM	30	-2	1376	83931
2/15/18 9:00 PM	30	-2	1380	83953
2/15/18 9:30 PM	29	-2	1378	83975
2/15/18 10:00 PM	32	-2	1382	83996

2/15/18 10:30 PM	32	-2	1379	84017
2/15/18 11:00 PM	29	-2	1379	84038
2/15/18 11:30 PM	29	-2	1381	84059
2/16/18 12:00 AM	28	-2	1378	84080
2/16/18 12:30 AM	27	-2	1376	84100
2/16/18 1:00 AM	27	-2	1378	84121
2/16/18 1:30 AM	28	-2	1376	84140
2/16/18 2:00 AM	29	-2	1379	84160
2/16/18 2:30 AM	28	-2	1380	84180
2/16/18 3:00 AM	26	-2	1380	84200
2/16/18 3:30 AM	27	-2	1378	84220
2/16/18 4:00 AM	28	-2	1379	84240
2/16/18 4:30 AM	30	-2	1383	84259
2/16/18 5:00 AM	27	-2	1380	84279
2/16/18 5:30 AM	27	-2	1383	84298
2/16/18 6:00 AM	29	-2	1378	84318
2/16/18 6:30 AM	28	-2	1377	84337
2/16/18 7:00 AM	26	-2	1379	84356
2/16/18 7:30 AM	0	-2	1354	84375
2/16/18 8:00 AM	0	-1	1203	84375
2/16/18 8:30 AM	0	0	1172	84375
2/16/18 9:00 AM	0	0	1153	84375
2/16/18 9:30 AM	0	1	1138	84375
2/16/18 10:00 AM	0	1	1127	84375
2/16/18 10:30 AM	0	2	1117	84375
2/16/18 11:00 AM	0	2	1108	84375
2/16/18 11:30 AM	0	3	1100	84375
2/16/18 12:00 PM	0	3	1093	84375
2/16/18 12:30 PM	0	4	1087	84375
2/16/18 1:00 PM	0	4	1081	84375
2/16/18 1:30 PM	0	5	1076	84375
2/16/18 2:00 PM	0	5	1070	84375
2/16/18 2:30 PM	0	6	1066	84375
2/16/18 3:00 PM	0	6	1061	84375
2/16/18 3:30 PM	0	6	1057	84375
2/16/18 4:00 PM	0	7	1053	84375
2/16/18 4:30 PM	0	7	1050	84375
2/16/18 5:00 PM	0	8	1046	84375
2/16/18 5:30 PM	0	8	1043	84375
2/16/18 6:00 PM	0	8	1040	84375
2/16/18 6:30 PM	0	9	1036	84375
2/16/18 7:00 PM	0	9	1034	84375
2/16/18 7:30 PM	0	10	1031	84375
2/16/18 8:00 PM	0	10	1028	84375
2/16/18 8:30 PM	0	10	1025	84375
2/16/18 9:00 PM	0	11	1023	84375
2/16/18 9:30 PM	0	11	1020	84375

2/16/18 10:00 PM	0	11	1018	84375
2/16/18 10:30 PM	0	11	1015	84375
2/16/18 11:00 PM	0	12	1013	84375
2/16/18 11:30 PM	0	12	1011	84375
2/17/18 12:00 AM	0	12	1009	84375
2/17/18 12:30 AM	0	13	1007	84375
2/17/18 1:00 AM	0	13	1005	84375
2/17/18 1:30 AM	0	13	1003	84375
2/17/18 2:00 AM	0	13	1001	84375
2/17/18 2:30 AM	0	14	999	84375
2/17/18 3:00 AM	0	14	997	84375
2/17/18 3:30 AM	0	14	995	84375
2/17/18 4:00 AM	0	15	993	84375
2/17/18 4:30 AM	0	15	992	84375
2/17/18 5:00 AM	0	15	990	84375
2/17/18 5:30 AM	0	15	988	84375
2/17/18 6:00 AM	0	16	987	84375
2/17/18 6:30 AM	0	16	985	84375
2/17/18 7:00 AM	0	16	984	84375
2/17/18 7:30 AM	0	16	982	84375
2/17/18 8:00 AM	0	17	981	84375
2/17/18 8:30 AM	0	17	979	84375
2/17/18 9:00 AM	0	17	978	84375
2/17/18 9:30 AM	0	17	976	84375
2/17/18 10:00 AM	0	18	975	84375
2/17/18 10:30 AM	0	18	973	84375
2/17/18 11:00 AM	0	18	972	84375
2/17/18 11:30 AM	0	18	970	84375
2/17/18 12:00 PM	0	19	969	84375
2/17/18 12:30 PM	0	19	968	84375
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2/17/18 2:00 PM	0	19	964	84375
2/17/18 2:30 PM	0	20	963	84375
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2/17/18 3:30 PM	0	20	960	84375
2/17/18 4:00 PM	0	20	959	84375
2/17/18 4:30 PM	0	21	958	84375
2/17/18 5:00 PM	0	21	957	84375
2/17/18 5:30 PM	0	21	956	84375
2/17/18 6:00 PM	0	21	955	84375
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2/17/18 7:00 PM	0	22	953	84375
2/17/18 7:30 PM	0	22	952	84375
2/17/18 8:00 PM	0	22	951	84375
2/17/18 8:30 PM	0	22	950	84375
2/17/18 9:00 PM	0	23	949	84375

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2/18/18 7:30 AM	0	26	930	84375
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2/18/18 1:30 PM	0	28	920	84375
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2/18/18 7:00 PM	0	30	913	84375
2/18/18 7:30 PM	0	31	912	84375
2/18/18 8:00 PM	0	31	911	84375
2/18/18 8:30 PM	0	31	911	84375



2/18/18 9:00 PM	0	31	910	84375
2/18/18 9:30 PM	0	31	910	84375
2/18/18 10:00 PM	0	31	909	84375
2/18/18 10:30 PM	0	32	908	84375
2/18/18 11:00 PM	0	32	907	84375
2/18/18 11:30 PM	0	32	907	84375
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2/19/18 3:00 AM	0	33	903	84375
2/19/18 3:30 AM	0	33	902	84375
2/19/18 4:00 AM	0	33	901	84375
2/19/18 4:30 AM	0	33	901	84375
2/19/18 5:00 AM	0	33	900	84375
2/19/18 5:30 AM	0	34	900	84375
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2/19/18 6:30 AM	0	34	898	84375
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2/19/18 8:00 AM	50	7	1272	84435
2/19/18 8:30 AM	43	4	1273	84469
2/19/18 9:00 AM	43	2	1274	84500
2/19/18 9:30 AM	41	1	1276	84529
2/19/18 10:00 AM	38	0	1281	84557
2/19/18 10:30 AM	39	0	1280	84583
2/19/18 11:00 AM	39	0	1304	84613
2/19/18 11:30 AM	39	-1	1308	84640
2/19/18 12:00 PM	39	-1	1304	84667
2/19/18 12:30 PM	35	-1	1306	84693
2/19/18 1:00 PM	35	-1	1307	84719
2/19/18 1:30 PM	35	-1	1309	84744
2/19/18 2:00 PM	32	-1	1309	84769
2/19/18 2:30 PM	33	-1	1309	84793
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2/19/18 3:30 PM	33	-1	1309	84840
2/19/18 4:00 PM	33	-1	1310	84863
2/19/18 4:30 PM	35	-1	1317	84886
2/19/18 5:00 PM	33	-1	1319	84909
2/19/18 5:30 PM	31	-1	1322	84932
2/19/18 6:00 PM	32	-1	1318	84955
2/19/18 6:30 PM	30	-1	1321	84978
2/19/18 7:00 PM	29	-1	1318	85000
2/19/18 7:30 PM	30	-1	1319	85022
2/19/18 8:00 PM	30	-1	1320	85043

2/19/18 8:30 PM	30	-1	1321	85065
2/19/18 9:00 PM	31	-1	1321	85086
2/19/18 9:30 PM	29	-1	1319	85107
2/19/18 10:00 PM	29	-1	1320	85128
2/19/18 10:30 PM	29	-1	1319	85148
2/19/18 11:00 PM	29	-1	1320	85168
2/19/18 11:30 PM	28	-1	1322	85189
2/20/18 12:00 AM	28	-1	1318	85209
2/20/18 12:30 AM	27	-1	1322	85228
2/20/18 1:00 AM	27	-1	1318	85248
2/20/18 1:30 AM	28	-1	1322	85268
2/20/18 2:00 AM	25	-1	1321	85287
2/20/18 2:30 AM	27	-1	1326	85306
2/20/18 3:00 AM	27	-1	1320	85325
2/20/18 3:30 AM	26	-1	1321	85344
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2/20/18 7:00 AM	26	-1	1333	85475
2/20/18 7:30 AM	34	-1	1358	85495
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2/20/18 9:30 AM	28	-2	1361	85582
2/20/18 10:00 AM	30	-2	1364	85603
2/20/18 10:30 AM	31	-2	1369	85625
2/20/18 11:00 AM	30	-2	1367	85646
2/20/18 11:30 AM	30	-2	1368	85667
2/20/18 12:00 PM	31	-2	1366	85688
2/20/18 12:30 PM	27	-2	1369	85709
2/20/18 1:00 PM	31	-2	1377	85730
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2/20/18 2:30 PM	31	-2	1376	85794
2/20/18 3:00 PM	31	-2	1382	85815
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2/20/18 4:00 PM	28	-2	1381	85856
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2/20/18 5:30 PM	29	-2	1385	85917
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2/20/18 6:30 PM	28	-2	1384	85957
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2/20/18 10:00 PM	27	-2	1385	86094
2/20/18 10:30 PM	26	-2	1385	86113
2/20/18 11:00 PM	26	-2	1383	86132
2/20/18 11:30 PM	27	-2	1384	86151
2/21/18 12:00 AM	28	-2	1383	86170
2/21/18 12:30 AM	27	-2	1382	86189
2/21/18 1:00 AM	27	-2	1383	86208
2/21/18 1:30 AM	27	-2	1381	86227
2/21/18 2:00 AM	27	-2	1382	86246
2/21/18 2:30 AM	26	-2	1381	86265
2/21/18 3:00 AM	27	-2	1380	86283
2/21/18 3:30 AM	26	-2	1382	86302
2/21/18 4:00 AM	26	-2	1385	86320
2/21/18 4:30 AM	26	-2	1384	86339
2/21/18 5:00 AM	27	-2	1385	86357
2/21/18 5:30 AM	25	-2	1385	86376
2/21/18 6:00 AM	25	-2	1385	86394
2/21/18 6:30 AM	23	-2	1377	86412
2/21/18 7:00 AM	26	-2	1382	86430
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2/21/18 8:00 AM	27	-2	1385	86466
2/21/18 8:30 AM	26	-2	1389	86484
2/21/18 9:00 AM	26	-2	1386	86503
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2/21/18 10:00 AM	25	-2	1387	86539
2/21/18 10:30 AM	26	-2	1384	86557
2/21/18 11:00 AM	25	-2	1384	86575
2/21/18 11:30 AM	24	-2	1386	86593
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2/21/18 12:30 PM	25	-2	1386	86628
2/21/18 1:00 PM	27	-2	1386	86645
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2/21/18 2:00 PM	0	-1	1197	86650
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2/21/18 7:00 PM	0	4	1103	86650

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2/21/18 9:30 PM	0	6	1081	86650
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2/22/18 12:30 AM	0	8	1061	86650
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2/22/18 1:30 AM	0	9	1055	86650
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2/22/18 7:30 AM	0	12	1027	86650
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2/22/18 6:30 PM	0	18	992	86650

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2/24/18 11:30 AM	0	31	922	86650
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2/24/18 5:30 PM	0	33	915	86650

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2/24/18 8:30 PM	0	33	912	86650
2/24/18 9:00 PM	0	34	912	86650
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2/24/18 10:00 PM	0	34	911	86650
2/24/18 10:30 PM	0	34	910	86650
2/24/18 11:00 PM	0	34	910	86650
2/24/18 11:30 PM	0	34	909	86650
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2/25/18 9:30 AM	0	36	900	86650
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2/25/18 10:30 AM	85	37	995	86651
2/25/18 11:00 AM	34	17	1156	86678
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2/25/18 12:00 PM	27	7	1161	86721
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2/25/18 1:00 PM	26	4	1164	86758
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2/25/18 2:30 PM	22	3	1166	86807
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2/25/18 4:00 PM	24	1	1186	86859
2/25/18 4:30 PM	23	1	1192	86876
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2/25/18 5:30 PM	28	1	1219	86911
2/25/18 6:00 PM	26	0	1224	86930
2/25/18 6:30 PM	26	0	1219	86949
2/25/18 7:00 PM	24	0	1222	86967
2/25/18 7:30 PM	24	0	1222	86985
2/25/18 8:00 PM	24	0	1222	87002
2/25/18 8:30 PM	24	0	1226	87019
2/25/18 9:00 PM	22	0	1220	87036
2/25/18 9:30 PM	24	0	1226	87053
2/25/18 10:00 PM	25	0	1224	87070
2/25/18 10:30 PM	22	0	1223	87086
2/25/18 11:00 PM	24	0	1225	87102
2/25/18 11:30 PM	24	0	1228	87119
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2/26/18 4:30 PM	28	-2	1333	87710



2/26/18 5:00 PM	28	-2	1332	87729
2/26/18 5:30 PM	28	-2	1348	87749
2/26/18 6:00 PM	28	-2	1346	87769
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2/27/18 4:00 PM	24	-1	1366	88557

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2/27/18 5:30 PM	24	-1	1372	88607
2/27/18 6:00 PM	24	-1	1368	88624
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2/27/18 8:00 PM	23	-1	1367	88690
2/27/18 8:30 PM	25	-1	1371	88706
2/27/18 9:00 PM	22	-1	1368	88723
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2/28/18 4:30 AM	21	-1	1365	88964
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2/28/18 9:00 AM	24	-1	1387	89109
2/28/18 9:30 AM	24	-1	1379	89126
2/28/18 10:00 AM	23	-1	1387	89143
2/28/18 10:30 AM	21	-1	1382	89159
2/28/18 11:00 AM	23	-1	1384	89175
2/28/18 11:30 AM	23	-1	1383	89192
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3/4/18 8:00 PM	0	37	902	89230
3/4/18 8:30 PM	0	37	902	89230
3/4/18 9:00 PM	0	37	902	89230
3/4/18 9:30 PM	0	38	901	89230
3/4/18 10:00 PM	0	38	901	89230
3/4/18 10:30 PM	0	38	900	89230
3/4/18 11:00 PM	0	38	900	89230
3/4/18 11:30 PM	0	38	900	89230
3/5/18 12:00 AM	0	38	899	89230
3/5/18 12:30 AM	0	38	899	89230
3/5/18 1:00 AM	0	38	898	89230
3/5/18 1:30 AM	0	38	898	89230
3/5/18 2:00 AM	0	38	897	89230
3/5/18 2:30 AM	0	38	897	89230
3/5/18 3:00 AM	0	38	897	89230
3/5/18 3:30 AM	0	38	896	89230
3/5/18 4:00 AM	0	38	896	89230
3/5/18 4:30 AM	0	38	896	89230
3/5/18 5:00 AM	0	39	895	89230
3/5/18 5:30 AM	0	39	895	89230
3/5/18 6:00 AM	0	39	894	89230
3/5/18 6:30 AM	0	39	894	89230
3/5/18 7:00 AM	0	39	894	89230
3/5/18 7:30 AM	0	39	894	89230
3/5/18 8:00 AM	34	23	1139	89250
3/5/18 8:30 AM	32	12	1182	89274
3/5/18 9:00 AM	33	8	1206	89297
3/5/18 9:30 AM	32	5	1221	89321
3/5/18 10:00 AM	35	4	1234	89344
3/5/18 10:30 AM	34	3	1246	89368
3/5/18 11:00 AM	34	2	1256	89391
3/5/18 11:30 AM	31	1	1263	89414
3/5/18 12:00 PM	33	1	1270	89437
3/5/18 12:30 PM	34	1	1277	89460
3/5/18 1:00 PM	31	0	1283	89483

3/5/18 1:30 PM	33	0	1288	89506
3/5/18 2:00 PM	21	0	1251	89528
3/5/18 2:30 PM	20	0	1219	89543
3/5/18 3:00 PM	27	0	1241	89560
3/5/18 3:30 PM	27	0	1248	89578
3/5/18 4:00 PM	26	0	1250	89597
3/5/18 4:30 PM	26	0	1252	89615
3/5/18 5:00 PM	24	0	1249	89632
3/5/18 5:30 PM	27	0	1259	89651
3/5/18 6:00 PM	24	0	1260	89669
3/5/18 6:30 PM	23	0	1261	89687
3/5/18 7:00 PM	25	0	1265	89704
3/5/18 7:30 PM	25	0	1262	89722
3/5/18 8:00 PM	30	0	1288	89740
3/5/18 8:30 PM	27	0	1282	89760
3/5/18 9:00 PM	26	0	1289	89779
3/5/18 9:30 PM	26	0	1288	89797
3/5/18 10:00 PM	24	0	1286	89816
3/5/18 10:30 PM	27	0	1288	89834
3/5/18 11:00 PM	25	0	1284	89852
3/5/18 11:30 PM	25	0	1283	89869
3/6/18 12:00 AM	23	-1	1286	89887
3/6/18 12:30 AM	27	-1	1299	89905
3/6/18 1:00 AM	27	-1	1296	89923
3/6/18 1:30 AM	25	-1	1294	89941
3/6/18 2:00 AM	24	-1	1299	89959
3/6/18 2:30 AM	24	-1	1297	89976
3/6/18 3:00 AM	23	-1	1295	89994
3/6/18 3:30 AM	24	-1	1298	90011
3/6/18 4:00 AM	25	-1	1295	90028
3/6/18 4:30 AM	26	-1	1307	90046
3/6/18 5:00 AM	25	-1	1311	90064
3/6/18 5:30 AM	25	-1	1305	90081
3/6/18 6:00 AM	24	-1	1307	90099
3/6/18 6:30 AM	24	-1	1305	90116
3/6/18 7:00 AM	25	-1	1308	90133
3/6/18 7:30 AM	23	-1	1305	90150
3/6/18 8:00 AM	27	-1	1338	90170
3/6/18 8:30 AM	28	-1	1344	90191
3/6/18 9:00 AM	30	-1	1349	90212
3/6/18 9:30 AM	30	-1	1353	90232
3/6/18 10:00 AM	28	-1	1356	90253
3/6/18 10:30 AM	23	-1	1343	90272
3/6/18 11:00 AM	27	-1	1339	90291
3/6/18 11:30 AM	23	-1	1339	90309
3/6/18 12:00 PM	24	-1	1339	90327
3/6/18 12:30 PM	24	-1	1340	90345



3/6/18 1:00 PM	24	-1	1342	90363
3/6/18 1:30 PM	27	-1	1343	90381
3/6/18 2:00 PM	25	-1	1345	90399
3/6/18 2:30 PM	27	-1	1347	90417
3/6/18 3:00 PM	26	-1	1348	90435
3/6/18 3:30 PM	25	-1	1350	90453
3/6/18 4:00 PM	25	-1	1352	90471
3/6/18 4:30 PM	26	-1	1353	90489
3/6/18 5:00 PM	26	-1	1355	90507
3/6/18 5:30 PM	26	-1	1357	90525
3/6/18 6:00 PM	25	-1	1358	90543
3/6/18 6:30 PM	26	-1	1360	90561
3/6/18 7:00 PM	27	-1	1361	90579
3/6/18 7:30 PM	26	-1	1363	90597
3/6/18 8:00 PM	26	-1	1365	90615
3/6/18 8:30 PM	26	-1	1366	90633
3/6/18 9:00 PM	26	-1	1367	90651
3/6/18 9:30 PM	24	-1	1368	90669
3/6/18 10:00 PM	25	-1	1369	90687
3/6/18 10:30 PM	25	-1	1371	90705
3/6/18 11:00 PM	24	-1	1372	90723
3/6/18 11:30 PM	26	-1	1373	90741
3/7/18 12:00 AM	26	-1	1375	90759
3/7/18 12:30 AM	23	-1	1376	90777
3/7/18 1:00 AM	26	-1	1377	90795
3/7/18 1:30 AM	24	-1	1378	90813
3/7/18 2:00 AM	24	-1	1380	90830
3/7/18 2:30 AM	26	-1	1381	90848
3/7/18 3:00 AM	24	-1	1382	90866
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3/7/18 4:00 AM	26	-1	1384	90902
3/7/18 4:30 AM	24	-1	1385	90920
3/7/18 5:00 AM	26	-1	1386	90938
3/7/18 5:30 AM	24	-1	1387	90955
3/7/18 6:00 AM	26	-1	1388	90973
3/7/18 6:30 AM	26	-1	1389	90991
3/7/18 7:00 AM	25	-1	1390	91009
3/7/18 7:30 AM	26	-1	1391	91026
3/7/18 8:00 AM	26	-1	1392	91044
3/7/18 8:30 AM	0	-1	1233	91051
3/7/18 9:00 AM	0	0	1190	91051
3/7/18 9:30 AM	0	0	1169	91051
3/7/18 10:00 AM	0	1	1154	91051
3/7/18 10:30 AM	0	1	1141	91051
3/7/18 11:00 AM	0	2	1131	91051
3/7/18 11:30 AM	0	2	1122	91051
3/7/18 12:00 PM	0	3	1114	91051

3/7/18 12:30 PM	0	3	1106	91051
3/7/18 1:00 PM	0	4	1100	91051
3/7/18 1:30 PM	0	4	1094	91051
3/7/18 2:00 PM	0	5	1089	91051
3/7/18 2:30 PM	0	5	1084	91051
3/7/18 3:00 PM	0	6	1079	91051
3/7/18 3:30 PM	0	6	1074	91051
3/7/18 4:00 PM	0	7	1070	91051
3/7/18 4:30 PM	0	7	1066	91051
3/7/18 5:00 PM	0	7	1063	91051
3/7/18 5:30 PM	0	8	1059	91051
3/7/18 6:00 PM	0	8	1056	91051
3/7/18 6:30 PM	0	9	1053	91051
3/7/18 7:00 PM	0	9	1050	91051
3/7/18 7:30 PM	0	9	1047	91051
3/7/18 8:00 PM	0	10	1044	91051
3/7/18 8:30 PM	0	10	1041	91051
3/7/18 9:00 PM	0	10	1039	91051
3/7/18 9:30 PM	0	11	1036	91051
3/7/18 10:00 PM	0	11	1034	91051
3/7/18 10:30 PM	0	11	1032	91051
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3/7/18 11:30 PM	0	12	1027	91051
3/8/18 12:00 AM	0	12	1025	91051
3/8/18 12:30 AM	0	13	1023	91051
3/8/18 1:00 AM	0	13	1021	91051
3/8/18 1:30 AM	0	13	1019	91051
3/8/18 2:00 AM	0	13	1017	91051
3/8/18 2:30 AM	0	14	1015	91051
3/8/18 3:00 AM	0	14	1013	91051
3/8/18 3:30 AM	0	14	1012	91051
3/8/18 4:00 AM	0	15	1010	91051
3/8/18 4:30 AM	0	15	1008	91051
3/8/18 5:00 AM	0	15	1007	91051
3/8/18 5:30 AM	0	15	1005	91051
3/8/18 6:00 AM	0	16	1003	91051
3/8/18 6:30 AM	0	16	1002	91051
3/8/18 7:00 AM	0	16	1000	91051
3/8/18 7:30 AM	0	16	999	91051
3/8/18 8:00 AM	27	12	1189	91065
3/8/18 8:30 AM	26	8	1229	91084
3/8/18 9:00 AM	27	5	1250	91103
3/8/18 9:30 AM	27	4	1263	91122
3/8/18 10:00 AM	27	3	1273	91141
3/8/18 10:30 AM	27	2	1282	91160
3/8/18 11:00 AM	27	2	1290	91179
3/8/18 11:30 AM	26	1	1296	91198

3/8/18 12:00 PM	26	1	1302	91216
3/8/18 12:30 PM	25	1	1306	91235
3/8/18 1:00 PM	26	0	1310	91253
3/8/18 1:30 PM	26	0	1316	91272
3/8/18 2:00 PM	26	0	1320	91290
3/8/18 2:30 PM	27	0	1324	91309
3/8/18 3:00 PM	26	0	1328	91327
3/8/18 3:30 PM	26	0	1332	91346
3/8/18 4:00 PM	26	0	1335	91364
3/8/18 4:30 PM	26	0	1338	91382
3/8/18 5:00 PM	25	0	1341	91400
3/8/18 5:30 PM	26	0	1344	91418
3/8/18 6:00 PM	26	-1	1347	91437
3/8/18 6:30 PM	25	-1	1350	91455
3/8/18 7:00 PM	25	-1	1353	91473
3/8/18 7:30 PM	25	-1	1355	91491
3/8/18 8:00 PM	25	-1	1358	91509
3/8/18 8:30 PM	26	-1	1361	91527
3/8/18 9:00 PM	25	-1	1363	91545
3/8/18 9:30 PM	25	-1	1366	91563
3/8/18 10:00 PM	25	-1	1369	91581
3/8/18 10:30 PM	26	-1	1371	91599
3/8/18 11:00 PM	25	-1	1374	91617
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3/9/18 12:00 AM	27	-1	1379	91654
3/9/18 12:30 AM	25	-1	1381	91672
3/9/18 1:00 AM	25	-1	1383	91691
3/9/18 1:30 AM	26	-1	1385	91709
3/9/18 2:00 AM	25	-1	1387	91727
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3/9/18 3:00 AM	25	-1	1390	91764
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3/9/18 4:00 AM	26	-1	1393	91800
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3/9/18 5:30 AM	26	-1	1399	91855
3/9/18 6:00 AM	25	-1	1400	91873
3/9/18 6:30 AM	25	-1	1401	91891
3/9/18 7:00 AM	25	-1	1403	91909
3/9/18 7:30 AM	0	-1	1242	91916
3/9/18 8:00 AM	0	0	1197	91916
3/9/18 8:30 AM	0	0	1174	91916
3/9/18 9:00 AM	0	1	1158	91916
3/9/18 9:30 AM	0	2	1145	91916
3/9/18 10:00 AM	0	2	1134	91916
3/9/18 10:30 AM	0	3	1125	91916
3/9/18 11:00 AM	0	3	1117	91916

3/9/18 11:30 AM	0	4	1109	91916
3/9/18 12:00 PM	0	4	1103	91916
3/9/18 12:30 PM	0	5	1097	91916
3/9/18 1:00 PM	0	5	1092	91916
3/9/18 1:30 PM	0	6	1087	91916
3/9/18 2:00 PM	0	6	1082	91916
3/9/18 2:30 PM	0	7	1078	91916
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3/9/18 3:30 PM	0	7	1070	91916
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3/9/18 11:30 PM	0	13	1029	91916
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3/10/18 8:00 AM	0	17	1002	91916
3/10/18 8:30 AM	0	17	1001	91916
3/10/18 9:00 AM	0	18	1000	91916
3/10/18 9:30 AM	0	18	998	91916
3/10/18 10:00 AM	0	18	997	91916
3/10/18 10:30 AM	0	18	996	91916

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3/10/18 11:30 AM	0	19	993	91916
3/10/18 12:00 PM	0	19	992	91916
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3/10/18 1:30 PM	0	19	988	91916
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3/11/18 11:00 AM	0	26	954	91916

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3/11/18 6:30 PM	0	28	944	91916
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3/12/18 7:00 AM	0	31	930	91916
3/12/18 7:30 AM	0	31	930	91916
3/12/18 8:00 AM	27	24	1115	91928
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3/12/18 9:00 AM	26	10	1181	91965
3/12/18 9:30 AM	26	7	1195	91983
3/12/18 10:00 AM	25	6	1206	92001
3/12/18 10:30 AM	25	5	1216	92019

3/12/18 11:00 AM	24	4	1225	92037
3/12/18 11:30 AM	26	3	1234	92055
3/12/18 12:00 PM	25	3	1240	92072
3/12/18 12:30 PM	24	2	1246	92090
3/12/18 1:00 PM	25	2	1250	92108
3/12/18 1:30 PM	26	2	1255	92126
3/12/18 2:00 PM	25	1	1260	92143
3/12/18 2:30 PM	25	1	1263	92161
3/12/18 3:00 PM	24	1	1267	92179
3/12/18 3:30 PM	25	1	1271	92196
3/12/18 4:00 PM	25	1	1274	92214
3/12/18 4:30 PM	24	1	1277	92231
3/12/18 5:00 PM	25	1	1282	92249
3/12/18 5:30 PM	25	0	1285	92267
3/12/18 6:00 PM	25	0	1288	92284
3/12/18 6:30 PM	25	0	1292	92302
3/12/18 7:00 PM	25	0	1296	92319
3/12/18 7:30 PM	25	0	1299	92337
3/12/18 8:00 PM	25	0	1302	92355
3/12/18 8:30 PM	25	0	1305	92373
3/12/18 9:00 PM	25	0	1308	92391
3/12/18 9:30 PM	25	0	1311	92409
3/12/18 10:00 PM	25	0	1313	92427
3/12/18 10:30 PM	26	0	1316	92445
3/12/18 11:00 PM	25	0	1319	92462
3/12/18 11:30 PM	25	0	1321	92480
3/13/18 12:00 AM	25	0	1323	92498
3/13/18 12:30 AM	25	0	1327	92516
3/13/18 1:00 AM	26	0	1331	92534
3/13/18 1:30 AM	26	0	1333	92552
3/13/18 2:00 AM	25	0	1335	92570
3/13/18 2:30 AM	26	0	1337	92588
3/13/18 3:00 AM	25	0	1340	92606
3/13/18 3:30 AM	25	0	1342	92624
3/13/18 4:00 AM	24	0	1344	92641
3/13/18 4:30 AM	25	0	1346	92659
3/13/18 5:00 AM	24	-1	1348	92677
3/13/18 5:30 AM	25	-1	1350	92694
3/13/18 6:00 AM	24	-1	1352	92712
3/13/18 6:30 AM	25	-1	1354	92730
3/13/18 7:00 AM	25	-1	1356	92747
3/13/18 7:30 AM	25	-1	1358	92765
3/13/18 8:00 AM	25	-1	1360	92782
3/13/18 8:30 AM	25	-1	1362	92800
3/13/18 9:00 AM	25	-1	1363	92818
3/13/18 9:30 AM	24	-1	1363	92835
3/13/18 10:00 AM	25	-1	1365	92852

3/13/18 10:30 AM	25	-1	1366	92870
3/13/18 11:00 AM	25	-1	1368	92888
3/13/18 11:30 AM	25	-1	1369	92905
3/13/18 12:00 PM	25	-1	1371	92923
3/13/18 12:30 PM	24	-1	1372	92940
3/13/18 1:00 PM	24	-1	1371	92958
3/13/18 1:30 PM	24	-1	1372	92975
3/13/18 2:00 PM	24	-1	1373	92992
3/13/18 2:30 PM	24	-1	1375	93010
3/13/18 3:00 PM	24	-1	1377	93027
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3/13/18 4:00 PM	24	-1	1379	93061
3/13/18 4:30 PM	25	-1	1380	93079
3/13/18 5:00 PM	24	-1	1382	93096
3/13/18 5:30 PM	24	-1	1383	93113
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3/13/18 6:30 PM	25	-1	1386	93148
3/13/18 7:00 PM	25	-1	1388	93165
3/13/18 7:30 PM	24	-1	1389	93183
3/13/18 8:00 PM	0	-1	1330	93199
3/13/18 8:30 PM	0	0	1207	93199
3/13/18 9:00 PM	0	1	1176	93199
3/13/18 9:30 PM	0	1	1158	93199
3/13/18 10:00 PM	0	2	1144	93199
3/13/18 10:30 PM	0	3	1132	93199
3/13/18 11:00 PM	0	3	1122	93199
3/13/18 11:30 PM	0	4	1113	93199
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3/14/18 12:30 AM	0	5	1099	93199
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3/14/18 3:00 AM	0	7	1073	93199
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3/14/18 8:00 AM	0	11	1040	93199
3/14/18 8:30 AM	0	11	1038	93199
3/14/18 9:00 AM	0	12	1035	93199
3/14/18 9:30 AM	0	12	1033	93199



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3/14/18 11:00 AM	0	13	1026	93199
3/14/18 11:30 AM	0	13	1024	93199
3/14/18 12:00 PM	0	14	1022	93199
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3/14/18 2:00 PM	0	15	1015	93199
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3/14/18 3:30 PM	0	16	1010	93199
3/14/18 4:00 PM	0	16	1008	93199
3/14/18 4:30 PM	0	16	1006	93199
3/14/18 5:00 PM	0	17	1005	93199
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3/14/18 6:00 PM	0	17	1002	93199
3/14/18 6:30 PM	0	17	1001	93199
3/14/18 7:00 PM	0	18	999	93199
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3/14/18 10:00 PM	0	19	992	93199
3/14/18 10:30 PM	0	19	990	93199
3/14/18 11:00 PM	0	19	989	93199
3/14/18 11:30 PM	0	20	988	93199
3/15/18 12:00 AM	0	20	987	93199
3/15/18 12:30 AM	0	20	986	93199
3/15/18 1:00 AM	0	20	985	93199
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3/15/18 3:30 AM	0	21	979	93199
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3/15/18 6:30 AM	0	23	973	93199
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3/15/18 7:30 AM	0	23	972	93199
3/15/18 8:00 AM	0	23	971	93199
3/15/18 8:30 AM	0	23	970	93199
3/15/18 9:00 AM	0	23	969	93199

3/15/18 9:30 AM	0	24	968	93199
3/15/18 10:00 AM	0	24	967	93199
3/15/18 10:30 AM	0	24	966	93199
3/15/18 11:00 AM	0	24	965	93199
3/15/18 11:30 AM	0	24	964	93199
3/15/18 12:00 PM	0	24	964	93199
3/15/18 12:30 PM	0	25	963	93199
3/15/18 1:00 PM	0	25	962	93199
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3/15/18 2:00 PM	0	25	960	93199
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3/15/18 3:00 PM	0	25	959	93199
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3/16/18 12:30 AM	0	28	946	93199
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3/16/18 1:30 AM	0	29	945	93199
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3/16/18 2:30 AM	0	29	943	93199
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3/16/18 3:30 AM	0	29	942	93199
3/16/18 4:00 AM	0	29	942	93199
3/16/18 4:30 AM	0	29	941	93199
3/16/18 5:00 AM	0	29	940	93199
3/16/18 5:30 AM	0	29	940	93199
3/16/18 6:00 AM	0	30	939	93199
3/16/18 6:30 AM	0	30	939	93199
3/16/18 7:00 AM	0	30	938	93199
3/16/18 7:30 AM	26	29	1085	93204
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3/16/18 8:30 AM	25	11	1182	93240

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3/16/18 10:00 AM	24	5	1221	93294
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3/16/18 11:00 AM	24	4	1239	93330
3/16/18 11:30 AM	31	3	1278	93350
3/16/18 12:00 PM	29	2	1293	93371
3/16/18 12:30 PM	28	2	1304	93393
3/16/18 1:00 PM	31	1	1313	93414
3/16/18 1:30 PM	30	1	1320	93436
3/16/18 2:00 PM	32	1	1327	93458
3/16/18 2:30 PM	29	0	1332	93480
3/16/18 3:00 PM	32	0	1338	93502
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3/16/18 7:00 PM	31	0	1368	93675
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3/16/18 8:00 PM	31	0	1376	93718
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3/16/18 11:30 PM	31	-1	1396	93868
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3/17/18 12:30 AM	31	-1	1401	93910
3/17/18 1:00 AM	28	-1	1404	93931
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3/17/18 2:00 AM	0	-1	1251	93966
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3/18/18 7:30 AM	0	23	965	93966

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3/19/18 1:30 PM	0	33	924	93966
3/19/18 2:00 PM	0	33	923	93966
3/19/18 2:30 PM	0	33	923	93966
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3/19/18 5:00 PM	32	4	1258	94079
3/19/18 5:30 PM	30	3	1270	94101
3/19/18 6:00 PM	30	2	1279	94124
3/19/18 6:30 PM	30	2	1288	94146
3/19/18 7:00 PM	32	1	1295	94168
3/19/18 7:30 PM	32	1	1302	94191
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3/19/18 9:30 PM	32	0	1325	94279
3/19/18 10:00 PM	31	0	1330	94302
3/19/18 10:30 PM	30	0	1335	94324
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3/19/18 11:30 PM	30	0	1343	94368
3/20/18 12:00 AM	31	0	1347	94390
3/20/18 12:30 AM	32	-1	1351	94412
3/20/18 1:00 AM	29	-1	1354	94434
3/20/18 1:30 AM	32	-1	1357	94456
3/20/18 2:00 AM	32	-1	1361	94478
3/20/18 2:30 AM	29	-1	1363	94500
3/20/18 3:00 AM	30	-1	1366	94521
3/20/18 3:30 AM	31	-1	1369	94543
3/20/18 4:00 AM	30	-1	1372	94565
3/20/18 4:30 AM	31	-1	1375	94587
3/20/18 5:00 AM	32	-1	1378	94608
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3/20/18 6:30 AM	31	-1	1387	94674

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3/20/18 9:00 AM	0	1	1111	94701
3/20/18 9:30 AM	0	2	1097	94701
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3/20/18 10:30 AM	0	4	1076	94701
3/20/18 11:00 AM	0	4	1068	94701
3/20/18 11:30 AM	0	5	1060	94701
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3/20/18 12:30 PM	0	6	1048	94701
3/20/18 1:00 PM	0	7	1042	94701
3/20/18 1:30 PM	0	7	1038	94701
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3/20/18 5:30 PM	0	11	1010	94701
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3/20/18 7:00 PM	0	13	1002	94701
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3/20/18 8:30 PM	0	14	996	94701
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3/20/18 9:30 PM	0	15	992	94701
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3/28/18 1:30 PM	0	56	838	94701
3/28/18 2:00 PM	0	56	838	94701
3/28/18 2:30 PM	0	56	838	94701
3/28/18 3:00 PM	0	56	837	94701
3/28/18 3:30 PM	0	57	837	94701
3/28/18 4:00 PM	0	57	837	94701
3/28/18 4:30 PM	0	57	837	94701
3/28/18 5:00 PM	0	57	837	94701
3/28/18 5:30 PM	0	57	837	94701
3/28/18 6:00 PM	0	57	836	94701
3/28/18 6:30 PM	0	57	836	94701
3/28/18 7:00 PM	0	57	836	94701
3/28/18 7:30 PM	0	57	836	94701
3/28/18 8:00 PM	0	57	835	94701
3/28/18 8:30 PM	0	57	835	94701
3/28/18 9:00 PM	0	57	835	94701
3/28/18 9:30 PM	0	57	835	94701
3/28/18 10:00 PM	0	57	835	94701
3/28/18 10:30 PM	0	58	835	94701
3/28/18 11:00 PM	0	58	835	94701
3/28/18 11:30 PM	0	58	834	94701
3/29/18 12:00 AM	0	58	834	94701
3/29/18 12:30 AM	0	58	834	94701
3/29/18 1:00 AM	0	58	834	94701
3/29/18 1:30 AM	0	58	834	94701
3/29/18 2:00 AM	0	58	834	94701

3/29/18 2:30 AM	0	58	833	94701
3/29/18 3:00 AM	0	58	833	94701
3/29/18 3:30 AM	0	58	833	94701
3/29/18 4:00 AM	0	58	833	94701
3/29/18 4:30 AM	0	58	833	94701
3/29/18 5:00 AM	0	58	833	94701
3/29/18 5:30 AM	0	58	832	94701
3/29/18 6:00 AM	0	58	832	94701
3/29/18 6:30 AM	0	58	832	94701
3/29/18 7:00 AM	0	58	832	94701
3/29/18 7:30 AM	0	58	832	94701
3/29/18 8:00 AM	0	58	832	94701
3/29/18 8:30 AM	0	58	832	94701
3/29/18 9:00 AM	0	58	831	94701
3/29/18 9:30 AM	0	58	831	94701
3/29/18 10:00 AM	0	58	831	94701
3/29/18 10:30 AM	0	58	831	94701
3/29/18 11:00 AM	0	59	830	94701
3/29/18 11:30 AM	0	59	830	94701
3/29/18 12:00 PM	0	59	830	94701
3/29/18 12:30 PM	0	59	830	94701
3/29/18 1:00 PM	0	59	830	94701
3/29/18 1:30 PM	0	59	829	94701
3/29/18 2:00 PM	0	59	829	94701
3/29/18 2:30 PM	0	59	829	94701
3/29/18 3:00 PM	0	59	829	94701
3/29/18 3:30 PM	0	59	829	94701
3/29/18 4:00 PM	0	59	829	94701
3/29/18 4:30 PM	0	59	828	94701
3/29/18 5:00 PM	0	59	828	94701
3/29/18 5:30 PM	0	60	828	94701
3/29/18 6:00 PM	0	60	828	94701
3/29/18 6:30 PM	0	60	828	94701
3/29/18 7:00 PM	0	60	827	94701
3/29/18 7:30 PM	0	60	827	94701
3/29/18 8:00 PM	0	60	827	94701
3/29/18 8:30 PM	0	60	827	94701
3/29/18 9:00 PM	0	60	827	94701
3/29/18 9:30 PM	0	60	827	94701
3/29/18 10:00 PM	0	60	827	94701
3/29/18 10:30 PM	0	60	826	94701
3/29/18 11:00 PM	0	60	826	94701
3/29/18 11:30 PM	0	60	826	94701
3/30/18 12:00 AM	0	60	826	94701
3/30/18 12:30 AM	0	60	826	94701
3/30/18 1:00 AM	0	60	825	94701
3/30/18 1:30 AM	0	60	825	94701



3/30/18 2:00 AM	0	60	825	94701
3/30/18 2:30 AM	0	60	825	94701
3/30/18 3:00 AM	0	60	825	94701
3/30/18 3:30 AM	0	60	825	94701
3/30/18 4:00 AM	0	60	825	94701
3/30/18 4:30 AM	0	60	824	94701
3/30/18 5:00 AM	0	60	824	94701
3/30/18 5:30 AM	0	60	824	94701
3/30/18 6:00 AM	0	60	824	94701
3/30/18 6:30 AM	0	60	824	94701
3/30/18 7:00 AM	0	60	824	94701
3/30/18 7:30 AM	0	60	824	94701
3/30/18 8:00 AM	0	60	824	94701
3/30/18 8:30 AM	0	60	824	94701
3/30/18 9:00 AM	0	61	823	94701
3/30/18 9:30 AM	0	61	823	94701
3/30/18 10:00 AM	0	61	823	94701
3/30/18 10:30 AM	0	61	823	94701
3/30/18 11:00 AM	0	61	822	94701
3/30/18 11:30 AM	0	61	822	94701
3/30/18 12:00 PM	0	61	822	94701
3/30/18 12:30 PM	0	61	822	94701
3/30/18 1:00 PM	0	61	821	94701
3/30/18 1:30 PM	0	61	821	94701
3/30/18 2:00 PM	0	62	821	94701
3/30/18 2:30 PM	0	62	821	94701
3/30/18 3:00 PM	0	62	821	94701
3/30/18 3:30 PM	0	62	821	94701
3/30/18 4:00 PM	0	62	821	94701
3/30/18 4:30 PM	0	62	821	94701
3/30/18 5:00 PM	0	62	820	94701
3/30/18 5:30 PM	0	62	820	94701
3/30/18 6:00 PM	0	62	820	94701
3/30/18 6:30 PM	0	62	820	94701
3/30/18 7:00 PM	0	62	820	94701
3/30/18 7:30 PM	0	62	819	94701
3/30/18 8:00 PM	0	62	819	94701
3/30/18 8:30 PM	0	62	819	94701
3/30/18 9:00 PM	0	63	819	94701
3/30/18 9:30 PM	0	63	819	94701
3/30/18 10:00 PM	0	63	819	94701
3/30/18 10:30 PM	0	63	819	94701
3/30/18 11:00 PM	0	63	819	94701
3/30/18 11:30 PM	0	63	819	94701
3/31/18 12:00 AM	0	63	818	94701
3/31/18 12:30 AM	0	63	818	94701
3/31/18 1:00 AM	0	63	818	94701

3/31/18 1:30 AM	0	63	818	94701
3/31/18 2:00 AM	0	63	818	94701
3/31/18 2:30 AM	0	63	818	94701
3/31/18 3:00 AM	0	63	817	94701
3/31/18 3:30 AM	0	63	817	94701
3/31/18 4:00 AM	0	63	817	94701
3/31/18 4:30 AM	0	63	817	94701
3/31/18 5:00 AM	0	63	817	94701
3/31/18 5:30 AM	0	63	817	94701
3/31/18 6:00 AM	0	63	817	94701
3/31/18 6:30 AM	0	63	816	94701
3/31/18 7:00 AM	0	63	816	94701
3/31/18 7:30 AM	0	63	816	94701
3/31/18 8:00 AM	0	63	816	94701
3/31/18 8:30 AM	0	63	816	94701
3/31/18 9:00 AM	0	63	816	94701
3/31/18 9:30 AM	0	63	816	94701
3/31/18 10:00 AM	0	63	816	94701
3/31/18 10:30 AM	0	63	815	94701
3/31/18 11:00 AM	0	63	815	94701
3/31/18 11:30 AM	0	63	815	94701
3/31/18 12:00 PM	0	64	814	94701
3/31/18 12:30 PM	0	64	814	94701
3/31/18 1:00 PM	0	64	814	94701
3/31/18 1:30 PM	0	64	814	94701
3/31/18 2:00 PM	0	64	814	94701
3/31/18 2:30 PM	0	64	814	94701
3/31/18 3:00 PM	0	64	814	94701
3/31/18 3:30 PM	0	64	814	94701
3/31/18 4:00 PM	0	64	813	94701
3/31/18 4:30 PM	0	64	813	94701
3/31/18 5:00 PM	0	64	813	94701
3/31/18 5:30 PM	0	64	813	94701
3/31/18 6:00 PM	0	65	813	94701
3/31/18 6:30 PM	0	65	813	94701
3/31/18 7:00 PM	0	65	812	94701
3/31/18 7:30 PM	0	65	812	94701
3/31/18 8:00 PM	0	65	812	94701
3/31/18 8:30 PM	0	65	812	94701
3/31/18 9:00 PM	0	65	812	94701
3/31/18 9:30 PM	0	65	812	94701
3/31/18 10:00 PM	0	65	812	94701
3/31/18 10:30 PM	0	65	812	94701
3/31/18 11:00 PM	0	65	811	94701
3/31/18 11:30 PM	0	65	811	94701
4/1/18 12:00 AM	0	65	811	94701

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> (gpm)	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> (bbls)
		<u>Pressure</u> (psi)	<u>Pressure</u> (psi)	
4/1/18 12:00 AM	0	65	811	94701
4/1/18 12:30 AM	0	65	811	94701
4/1/18 1:00 AM	0	65	811	94701
4/1/18 1:30 AM	0	65	811	94701
4/1/18 2:00 AM	0	65	811	94701
4/1/18 2:30 AM	0	65	811	94701
4/1/18 3:00 AM	0	65	810	94701
4/1/18 3:30 AM	0	65	810	94701
4/1/18 4:00 AM	0	65	810	94701
4/1/18 4:30 AM	0	65	810	94701
4/1/18 5:00 AM	0	65	810	94701
4/1/18 5:30 AM	0	65	810	94701
4/1/18 6:00 AM	0	65	810	94701
4/1/18 6:30 AM	0	65	810	94701
4/1/18 7:00 AM	0	65	809	94701
4/1/18 7:30 AM	0	65	809	94701
4/1/18 8:00 AM	0	65	809	94701
4/1/18 8:30 AM	0	65	809	94701
4/1/18 9:00 AM	0	65	809	94701
4/1/18 9:30 AM	0	66	809	94701
4/1/18 10:00 AM	0	66	809	94701
4/1/18 10:30 AM	0	65	808	94701
4/1/18 11:00 AM	0	66	808	94701
4/1/18 11:30 AM	0	66	808	94701
4/1/18 12:00 PM	0	66	808	94701
4/1/18 12:30 PM	0	66	808	94701
4/1/18 1:00 PM	0	66	807	94701
4/1/18 1:30 PM	0	66	807	94701
4/1/18 2:00 PM	0	66	807	94701
4/1/18 2:30 PM	0	66	807	94701
4/1/18 3:00 PM	0	66	807	94701
4/1/18 3:30 PM	0	66	807	94701
4/1/18 4:00 PM	0	66	807	94701
4/1/18 4:30 PM	0	66	806	94701
4/1/18 5:00 PM	0	67	806	94701
4/1/18 5:30 PM	0	67	806	94701
4/1/18 6:00 PM	0	67	806	94701
4/1/18 6:30 PM	0	67	806	94701
4/1/18 7:00 PM	0	67	806	94701
4/1/18 7:30 PM	0	67	806	94701
4/1/18 8:00 PM	0	67	805	94701
4/1/18 8:30 PM	0	67	805	94701
4/1/18 9:00 PM	0	67	805	94701

4/1/18 9:30 PM	0	67	805	94701
4/1/18 10:00 PM	0	67	805	94701
4/1/18 10:30 PM	0	67	805	94701
4/1/18 11:00 PM	0	67	805	94701
4/1/18 11:30 PM	0	67	805	94701
4/2/18 12:00 AM	0	67	805	94701
4/2/18 12:30 AM	0	67	804	94701
4/2/18 1:00 AM	0	67	804	94701
4/2/18 1:30 AM	0	67	804	94701
4/2/18 2:00 AM	0	67	804	94701
4/2/18 2:30 AM	0	67	804	94701
4/2/18 3:00 AM	0	67	804	94701
4/2/18 3:30 AM	0	67	804	94701
4/2/18 4:00 AM	0	67	804	94701
4/2/18 4:30 AM	0	67	803	94701
4/2/18 5:00 AM	0	67	803	94701
4/2/18 5:30 AM	0	67	803	94701
4/2/18 6:00 AM	0	67	803	94701
4/2/18 6:30 AM	0	67	803	94701
4/2/18 7:00 AM	0	67	803	94701
4/2/18 7:30 AM	0	67	803	94701
4/2/18 8:00 AM	0	67	803	94701
4/2/18 8:30 AM	0	67	803	94701
4/2/18 9:00 AM	0	67	802	94701
4/2/18 9:30 AM	0	67	802	94701
4/2/18 10:00 AM	0	67	802	94701
4/2/18 10:30 AM	0	68	802	94701
4/2/18 11:00 AM	0	68	802	94701
4/2/18 11:30 AM	0	68	801	94701
4/2/18 12:00 PM	0	68	801	94701
4/2/18 12:30 PM	0	68	801	94701
4/2/18 1:00 PM	0	68	801	94701
4/2/18 1:30 PM	0	68	801	94701
4/2/18 2:00 PM	0	68	801	94701
4/2/18 2:30 PM	0	68	801	94701
4/2/18 3:00 PM	0	68	800	94701
4/2/18 3:30 PM	0	68	800	94701
4/2/18 4:00 PM	0	68	800	94701
4/2/18 4:30 PM	0	69	800	94701
4/2/18 5:00 PM	0	69	800	94701
4/2/18 5:30 PM	0	69	800	94701
4/2/18 6:00 PM	0	69	800	94701
4/2/18 6:30 PM	0	69	799	94701
4/2/18 7:00 PM	0	69	799	94701
4/2/18 7:30 PM	0	69	799	94701
4/2/18 8:00 PM	0	69	799	94701
4/2/18 8:30 PM	0	69	799	94701

4/2/18 9:00 PM	0	69	799	94701
4/2/18 9:30 PM	0	69	799	94701
4/2/18 10:00 PM	0	69	799	94701
4/2/18 10:30 PM	0	69	799	94701
4/2/18 11:00 PM	0	69	799	94701
4/2/18 11:30 PM	0	69	798	94701
4/3/18 12:00 AM	0	69	798	94701
4/3/18 12:30 AM	0	69	798	94701
4/3/18 1:00 AM	0	69	798	94701
4/3/18 1:30 AM	0	69	798	94701
4/3/18 2:00 AM	0	69	798	94701
4/3/18 2:30 AM	0	69	798	94701
4/3/18 3:00 AM	0	69	797	94701
4/3/18 3:30 AM	0	70	797	94701
4/3/18 4:00 AM	0	70	797	94701
4/3/18 4:30 AM	0	70	797	94701
4/3/18 5:00 AM	0	70	797	94701
4/3/18 5:30 AM	0	70	797	94701
4/3/18 6:00 AM	0	70	797	94701
4/3/18 6:30 AM	0	70	797	94701
4/3/18 7:00 AM	0	70	796	94701
4/3/18 7:30 AM	0	70	796	94701
4/3/18 8:00 AM	0	70	797	94701
4/3/18 8:30 AM	0	70	796	94701
4/3/18 9:00 AM	0	70	796	94701
4/3/18 9:30 AM	0	70	796	94701
4/3/18 10:00 AM	0	70	796	94701
4/3/18 10:30 AM	0	70	796	94701
4/3/18 11:00 AM	0	70	795	94701
4/3/18 11:30 AM	0	70	795	94701
4/3/18 12:00 PM	0	70	795	94701
4/3/18 12:30 PM	0	70	795	94701
4/3/18 1:00 PM	0	70	795	94701
4/3/18 1:30 PM	0	70	795	94701
4/3/18 2:00 PM	0	70	795	94701
4/3/18 2:30 PM	0	70	794	94701
4/3/18 3:00 PM	0	70	794	94701
4/3/18 3:30 PM	0	71	794	94701
4/3/18 4:00 PM	0	71	794	94701
4/3/18 4:30 PM	0	71	794	94701
4/3/18 5:00 PM	0	71	794	94701
4/3/18 5:30 PM	0	71	794	94701
4/3/18 6:00 PM	0	71	794	94701
4/3/18 6:30 PM	0	71	793	94701
4/3/18 7:00 PM	0	71	793	94701
4/3/18 7:30 PM	0	71	793	94701
4/3/18 8:00 PM	0	71	793	94701

4/3/18 8:30 PM	0	71	793	94701
4/3/18 9:00 PM	0	71	793	94701
4/3/18 9:30 PM	0	71	793	94701
4/3/18 10:00 PM	0	71	793	94701
4/3/18 10:30 PM	0	71	793	94701
4/3/18 11:00 PM	0	71	793	94701
4/3/18 11:30 PM	0	71	792	94701
4/4/18 12:00 AM	0	71	792	94701
4/4/18 12:30 AM	0	71	792	94701
4/4/18 1:00 AM	0	71	792	94701
4/4/18 1:30 AM	0	71	792	94701
4/4/18 2:00 AM	0	71	792	94701
4/4/18 2:30 AM	0	71	792	94701
4/4/18 3:00 AM	0	71	792	94701
4/4/18 3:30 AM	0	71	792	94701
4/4/18 4:00 AM	0	71	791	94701
4/4/18 4:30 AM	0	71	791	94701
4/4/18 5:00 AM	0	71	791	94701
4/4/18 5:30 AM	0	71	791	94701
4/4/18 6:00 AM	0	71	791	94701
4/4/18 6:30 AM	0	71	791	94701
4/4/18 7:00 AM	0	71	791	94701
4/4/18 7:30 AM	0	71	791	94701
4/4/18 8:00 AM	0	71	791	94701
4/4/18 8:30 AM	0	71	791	94701
4/4/18 9:00 AM	0	71	790	94701
4/4/18 9:30 AM	0	71	790	94701
4/4/18 10:00 AM	0	71	790	94701
4/4/18 10:30 AM	0	71	790	94701
4/4/18 11:00 AM	0	71	790	94701
4/4/18 11:30 AM	0	71	790	94701
4/4/18 12:00 PM	0	71	789	94701
4/4/18 12:30 PM	0	71	789	94701
4/4/18 1:00 PM	0	72	789	94701
4/4/18 1:30 PM	0	72	789	94701
4/4/18 2:00 PM	0	72	789	94701
4/4/18 2:30 PM	0	72	788	94701
4/4/18 3:00 PM	0	72	788	94701
4/4/18 3:30 PM	0	72	788	94701
4/4/18 4:00 PM	0	72	788	94701
4/4/18 4:30 PM	0	72	788	94701
4/4/18 5:00 PM	0	72	788	94701
4/4/18 5:30 PM	0	72	788	94701
4/4/18 6:00 PM	0	72	788	94701
4/4/18 6:30 PM	0	72	788	94701
4/4/18 7:00 PM	0	73	788	94701
4/4/18 7:30 PM	0	73	787	94701

4/4/18 8:00 PM	0	73	787	94701
4/4/18 8:30 PM	0	73	787	94701
4/4/18 9:00 PM	0	73	787	94701
4/4/18 9:30 PM	0	73	787	94701
4/4/18 10:00 PM	0	73	787	94701
4/4/18 10:30 PM	0	73	787	94701
4/4/18 11:00 PM	0	73	787	94701
4/4/18 11:30 PM	0	73	787	94701
4/5/18 12:00 AM	0	73	787	94701
4/5/18 12:30 AM	0	73	786	94701
4/5/18 1:00 AM	0	73	786	94701
4/5/18 1:30 AM	0	73	786	94701
4/5/18 2:00 AM	0	73	786	94701
4/5/18 2:30 AM	0	73	786	94701
4/5/18 3:00 AM	0	73	786	94701
4/5/18 3:30 AM	0	73	786	94701
4/5/18 4:00 AM	0	73	786	94701
4/5/18 4:30 AM	0	73	786	94701
4/5/18 5:00 AM	0	73	785	94701
4/5/18 5:30 AM	0	73	785	94701
4/5/18 6:00 AM	0	73	785	94701
4/5/18 6:30 AM	0	73	785	94701
4/5/18 7:00 AM	0	73	785	94701
4/5/18 7:30 AM	0	73	785	94701
4/5/18 8:00 AM	0	73	785	94701
4/5/18 8:30 AM	0	73	785	94701
4/5/18 9:00 AM	0	73	785	94701
4/5/18 9:30 AM	0	73	785	94701
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4/21/18 11:00 AM	0	95	720	94701

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4/21/18 12:30 PM	0	95	719	94701
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4/21/18 1:30 PM	0	95	719	94701
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4/29/18 9:00 AM	0	29	897	98081
4/29/18 9:30 AM	0	30	896	98081
4/29/18 10:00 AM	0	30	895	98081
4/29/18 10:30 AM	0	30	894	98081
4/29/18 11:00 AM	0	31	893	98081
4/29/18 11:30 AM	0	31	892	98081
4/29/18 12:00 PM	0	31	891	98081
4/29/18 12:30 PM	0	31	890	98081
4/29/18 1:00 PM	0	32	889	98081
4/29/18 1:30 PM	0	32	888	98081
4/29/18 2:00 PM	0	32	887	98081
4/29/18 2:30 PM	0	32	886	98081
4/29/18 3:00 PM	0	33	885	98081
4/29/18 3:30 PM	0	33	884	98081
4/29/18 4:00 PM	0	33	883	98081
4/29/18 4:30 PM	0	33	883	98081
4/29/18 5:00 PM	0	34	882	98081
4/29/18 5:30 PM	0	34	881	98081
4/29/18 6:00 PM	0	34	880	98081
4/29/18 6:30 PM	0	34	879	98081
4/29/18 7:00 PM	0	35	878	98081
4/29/18 7:30 PM	0	35	877	98081
4/29/18 8:00 PM	0	35	877	98081
4/29/18 8:30 PM	0	35	876	98081
4/29/18 9:00 PM	0	35	875	98081
4/29/18 9:30 PM	0	36	874	98081
4/29/18 10:00 PM	0	36	874	98081
4/29/18 10:30 PM	0	36	873	98081
4/29/18 11:00 PM	0	36	872	98081
4/29/18 11:30 PM	0	37	871	98081
4/30/18 12:00 AM	0	37	871	98081
4/30/18 12:30 AM	0	37	870	98081
4/30/18 1:00 AM	0	37	869	98081
4/30/18 1:30 AM	0	37	868	98081
4/30/18 2:00 AM	0	38	868	98081
4/30/18 2:30 AM	0	38	867	98081
4/30/18 3:00 AM	0	38	866	98081
4/30/18 3:30 AM	0	38	866	98081
4/30/18 4:00 AM	0	38	865	98081
4/30/18 4:30 AM	0	39	864	98081
4/30/18 5:00 AM	0	39	864	98081
4/30/18 5:30 AM	0	39	863	98081
4/30/18 6:00 AM	0	39	862	98081
4/30/18 6:30 AM	0	39	861	98081



4/30/18 7:00 AM	0	40	861	98081
4/30/18 7:30 AM	0	40	860	98081
4/30/18 8:00 AM	0	40	860	98081
4/30/18 8:30 AM	0	40	859	98081
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4/30/18 9:30 AM	0	41	858	98081
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4/30/18 12:30 PM	0	42	854	98081
4/30/18 1:00 PM	0	42	853	98081
4/30/18 1:30 PM	0	42	853	98081
4/30/18 2:00 PM	0	42	852	98081
4/30/18 2:30 PM	0	42	851	98081
4/30/18 3:00 PM	0	43	851	98081
4/30/18 3:30 PM	0	43	850	98081
4/30/18 4:00 PM	0	43	850	98081
4/30/18 4:30 PM	0	43	849	98081
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4/30/18 6:30 PM	0	44	847	98081
4/30/18 7:00 PM	0	44	847	98081
4/30/18 7:30 PM	0	44	846	98081
4/30/18 8:00 PM	0	45	846	98081
4/30/18 8:30 PM	0	45	845	98081
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4/30/18 11:00 PM	0	46	843	98081
4/30/18 11:30 PM	0	46	842	98081
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5/1/18 1:30 AM	0	46	840	98081
5/1/18 2:00 AM	0	47	840	98081
5/1/18 2:30 AM	0	47	839	98081
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5/1/18 2:30 PM	0	50	829	98081
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5/1/18 3:30 PM	0	51	828	98081
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5/1/18 6:30 PM	0	52	825	98081
5/1/18 7:00 PM	0	52	825	98081
5/1/18 7:30 PM	0	52	825	98081
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5/1/18 8:30 PM	0	52	824	98081
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5/1/18 11:30 PM	0	53	822	98081
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5/2/18 2:30 AM	0	54	820	98081
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5/2/18 5:30 AM	0	54	817	98081

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5/2/18 6:30 AM	0	55	817	98081
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5/2/18 12:30 PM	0	56	812	98081
5/2/18 1:00 PM	0	56	812	98081
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5/3/18 4:30 AM	0	59	803	98081
5/3/18 5:00 AM	0	59	803	98081

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5/3/18 6:00 AM	0	60	803	98081
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5/3/18 11:00 PM	0	64	793	98081
5/3/18 11:30 PM	0	64	793	98081
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5/4/18 2:30 AM	0	64	792	98081
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5/4/18 3:30 AM	0	64	791	98081
5/4/18 4:00 AM	0	64	791	98081
5/4/18 4:30 AM	0	64	791	98081

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5/4/18 5:30 AM	0	64	790	98081
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5/5/18 3:30 AM	0	69	781	98081
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5/7/18 1:30 AM	0	76	765	98081
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5/7/18 2:30 AM	0	76	764	98081
5/7/18 3:00 AM	0	76	764	98081

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5/7/18 10:00 AM	32	16	1047	98136
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5/7/18 11:00 AM	31	9	1085	98180
5/7/18 11:30 AM	30	7	1099	98202
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5/7/18 12:30 PM	30	5	1119	98246
5/7/18 1:00 PM	31	4	1126	98268
5/7/18 1:30 PM	29	4	1133	98289
5/7/18 2:00 PM	31	4	1140	98311
5/7/18 2:30 PM	28	3	1146	98332
5/7/18 3:00 PM	27	3	1151	98353
5/7/18 3:30 PM	29	3	1157	98375
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5/7/18 4:30 PM	31	3	1166	98417
5/7/18 5:00 PM	29	2	1170	98438
5/7/18 5:30 PM	29	2	1175	98459
5/7/18 6:00 PM	31	2	1179	98481
5/7/18 6:30 PM	29	2	1182	98502
5/7/18 7:00 PM	30	2	1186	98523
5/7/18 7:30 PM	28	2	1189	98544
5/7/18 8:00 PM	27	2	1192	98565
5/7/18 8:30 PM	29	2	1195	98586
5/7/18 9:00 PM	29	2	1198	98607
5/7/18 9:30 PM	30	2	1201	98628
5/7/18 10:00 PM	29	2	1205	98649
5/7/18 10:30 PM	29	2	1208	98669
5/7/18 11:00 PM	30	2	1210	98690
5/7/18 11:30 PM	27	2	1213	98711
5/8/18 12:00 AM	29	2	1216	98732
5/8/18 12:30 AM	27	1	1218	98753
5/8/18 1:00 AM	30	1	1221	98774
5/8/18 1:30 AM	27	1	1223	98795
5/8/18 2:00 AM	27	1	1226	98815
5/8/18 2:30 AM	29	1	1228	98836



5/8/18 3:00 AM	30	1	1231	98857
5/8/18 3:30 AM	30	1	1233	98878
5/8/18 4:00 AM	29	1	1235	98899
5/8/18 4:30 AM	29	1	1237	98919
5/8/18 5:00 AM	28	1	1239	98940
5/8/18 5:30 AM	29	1	1242	98961
5/8/18 6:00 AM	29	1	1245	98982
5/8/18 6:30 AM	29	1	1247	99003
5/8/18 7:00 AM	30	1	1249	99024
5/8/18 7:30 AM	31	1	1251	99044
5/8/18 8:00 AM	27	1	1254	99065
5/8/18 8:30 AM	27	1	1255	99086
5/8/18 9:00 AM	29	1	1256	99107
5/8/18 9:30 AM	29	1	1258	99127
5/8/18 10:00 AM	30	1	1261	99148
5/8/18 10:30 AM	31	1	1263	99169
5/8/18 11:00 AM	30	1	1265	99190
5/8/18 11:30 AM	30	1	1267	99211
5/8/18 12:00 PM	27	1	1269	99232
5/8/18 12:30 PM	30	1	1270	99252
5/8/18 1:00 PM	30	1	1273	99273
5/8/18 1:30 PM	30	1	1275	99294
5/8/18 2:00 PM	30	1	1278	99315
5/8/18 2:30 PM	30	1	1280	99336
5/8/18 3:00 PM	28	1	1282	99357
5/8/18 3:30 PM	30	1	1284	99378
5/8/18 4:00 PM	28	1	1286	99398
5/8/18 4:30 PM	28	1	1287	99419
5/8/18 5:00 PM	29	1	1289	99440
5/8/18 5:30 PM	29	1	1291	99461
5/8/18 6:00 PM	28	1	1293	99482
5/8/18 6:30 PM	30	1	1295	99503
5/8/18 7:00 PM	29	1	1297	99524
5/8/18 7:30 PM	29	1	1299	99544
5/8/18 8:00 PM	29	1	1301	99565
5/8/18 8:30 PM	28	1	1303	99586
5/8/18 9:00 PM	28	1	1304	99607
5/8/18 9:30 PM	27	1	1306	99628
5/8/18 10:00 PM	30	1	1308	99649
5/8/18 10:30 PM	30	1	1310	99669
5/8/18 11:00 PM	29	1	1311	99690
5/8/18 11:30 PM	29	1	1313	99711
5/9/18 12:00 AM	30	1	1314	99732
5/9/18 12:30 AM	30	1	1316	99753
5/9/18 1:00 AM	29	1	1317	99774
5/9/18 1:30 AM	30	1	1319	99795
5/9/18 2:00 AM	30	1	1321	99816

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5/9/18 3:30 AM	27	1	1324	99878
5/9/18 4:00 AM	29	1	1326	99899
5/9/18 4:30 AM	30	1	1327	99920
5/9/18 5:00 AM	29	1	1328	99940
5/9/18 5:30 AM	29	1	1330	99961
5/9/18 6:00 AM	29	1	1331	99982
5/9/18 6:30 AM	27	1	1332	100002
5/9/18 7:00 AM	27	1	1334	100023
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5/9/18 8:00 AM	29	1	1336	100064
5/9/18 8:30 AM	28	0	1337	100085
5/9/18 9:00 AM	27	1	1338	100105
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5/9/18 10:30 AM	30	1	1342	100167
5/9/18 11:00 AM	30	1	1343	100187
5/9/18 11:30 AM	29	1	1345	100208
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5/9/18 6:30 PM	29	1	1363	100493
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5/9/18 7:30 PM	30	1	1365	100533
5/9/18 8:00 PM	29	1	1366	100553
5/9/18 8:30 PM	29	1	1368	100573
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5/9/18 11:00 PM	29	1	1376	100674
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5/10/18 1:00 AM	29	1	1381	100755
5/10/18 1:30 AM	29	1	1383	100776

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5/10/18 3:00 AM	29	1	1386	100837
5/10/18 3:30 AM	29	1	1387	100857
5/10/18 4:00 AM	30	1	1389	100877
5/10/18 4:30 AM	30	1	1390	100898
5/10/18 5:00 AM	0	1	1194	100898
5/10/18 5:30 AM	0	2	1157	100898
5/10/18 6:00 AM	0	3	1134	100898
5/10/18 6:30 AM	0	4	1117	100898
5/10/18 7:00 AM	0	4	1103	100898
5/10/18 7:30 AM	0	5	1091	100898
5/10/18 8:00 AM	0	6	1081	100898
5/10/18 8:30 AM	0	6	1072	100898
5/10/18 9:00 AM	0	7	1064	100898
5/10/18 9:30 AM	0	8	1057	100898
5/10/18 10:00 AM	0	8	1050	100898
5/10/18 10:30 AM	0	9	1044	100898
5/10/18 11:00 AM	0	9	1038	100898
5/10/18 11:30 AM	0	10	1033	100898
5/10/18 12:00 PM	0	10	1028	100898
5/10/18 12:30 PM	0	11	1023	100898
5/10/18 1:00 PM	0	11	1019	100898
5/10/18 1:30 PM	0	12	1015	100898
5/10/18 2:00 PM	0	12	1011	100898
5/10/18 2:30 PM	0	13	1007	100898
5/10/18 3:00 PM	0	13	1004	100898
5/10/18 3:30 PM	0	14	1000	100898
5/10/18 4:00 PM	0	14	997	100898
5/10/18 4:30 PM	0	15	994	100898
5/10/18 5:00 PM	0	15	991	100898
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5/10/18 6:00 PM	0	16	985	100898
5/10/18 6:30 PM	0	16	982	100898
5/10/18 7:00 PM	0	17	980	100898
5/10/18 7:30 PM	0	17	978	100898
5/10/18 8:00 PM	0	18	975	100898
5/10/18 8:30 PM	0	18	973	100898
5/10/18 9:00 PM	0	18	970	100898
5/10/18 9:30 PM	0	19	968	100898
5/10/18 10:00 PM	0	19	966	100898
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5/10/18 11:00 PM	0	20	962	100898
5/10/18 11:30 PM	0	20	960	100898
5/11/18 12:00 AM	0	20	958	100898
5/11/18 12:30 AM	0	21	956	100898
5/11/18 1:00 AM	0	21	954	100898

5/11/18 1:30 AM	0	22	952	100898
5/11/18 2:00 AM	0	22	951	100898
5/11/18 2:30 AM	0	22	949	100898
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5/11/18 3:30 AM	0	23	946	100898
5/11/18 4:00 AM	0	23	944	100898
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5/11/18 5:00 AM	0	24	941	100898
5/11/18 5:30 AM	0	24	939	100898
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5/11/18 8:00 AM	0	25	932	100898
5/11/18 8:30 AM	0	26	931	100898
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5/11/18 9:30 AM	0	26	928	100898
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5/11/18 11:00 AM	0	27	924	100898
5/11/18 11:30 AM	0	27	923	100898
5/11/18 12:00 PM	0	28	922	100898
5/11/18 12:30 PM	0	28	921	100898
5/11/18 1:00 PM	0	28	920	100898
5/11/18 1:30 PM	0	28	918	100898
5/11/18 2:00 PM	0	29	917	100898
5/11/18 2:30 PM	0	29	916	100898
5/11/18 3:00 PM	0	29	915	100898
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5/11/18 5:00 PM	0	30	911	100898
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5/11/18 7:00 PM	0	31	907	100898
5/11/18 7:30 PM	0	32	906	100898
5/11/18 8:00 PM	0	32	905	100898
5/11/18 8:30 PM	0	32	904	100898
5/11/18 9:00 PM	0	32	903	100898
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5/11/18 10:00 PM	0	33	901	100898
5/11/18 10:30 PM	0	33	900	100898
5/11/18 11:00 PM	0	33	900	100898
5/11/18 11:30 PM	0	33	899	100898
5/12/18 12:00 AM	0	34	898	100898
5/12/18 12:30 AM	0	34	897	100898

5/12/18 1:00 AM	0	34	896	100898
5/12/18 1:30 AM	0	34	895	100898
5/12/18 2:00 AM	0	35	894	100898
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5/12/18 3:00 AM	0	35	893	100898
5/12/18 3:30 AM	0	35	892	100898
5/12/18 4:00 AM	0	35	891	100898
5/12/18 4:30 AM	0	36	891	100898
5/12/18 5:00 AM	0	36	890	100898
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5/12/18 6:30 AM	0	36	887	100898
5/12/18 7:00 AM	0	37	887	100898
5/12/18 7:30 AM	0	37	886	100898
5/12/18 8:00 AM	0	37	886	100898
5/12/18 8:30 AM	0	37	885	100898
5/12/18 9:00 AM	0	37	884	100898
5/12/18 9:30 AM	0	38	883	100898
5/12/18 10:00 AM	0	38	882	100898
5/12/18 10:30 AM	0	38	882	100898
5/12/18 11:00 AM	0	38	881	100898
5/12/18 11:30 AM	0	39	880	100898
5/12/18 12:00 PM	0	39	879	100898
5/12/18 12:30 PM	0	39	879	100898
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5/12/18 1:30 PM	0	39	878	100898
5/12/18 2:00 PM	0	40	877	100898
5/12/18 2:30 PM	0	40	876	100898
5/12/18 3:00 PM	0	40	876	100898
5/12/18 3:30 PM	0	40	875	100898
5/12/18 4:00 PM	0	40	874	100898
5/12/18 4:30 PM	0	40	874	100898
5/12/18 5:00 PM	0	41	873	100898
5/12/18 5:30 PM	0	41	873	100898
5/12/18 6:00 PM	0	41	872	100898
5/12/18 6:30 PM	0	41	871	100898
5/12/18 7:00 PM	0	41	871	100898
5/12/18 7:30 PM	0	42	870	100898
5/12/18 8:00 PM	0	42	869	100898
5/12/18 8:30 PM	0	42	869	100898
5/12/18 9:00 PM	0	42	868	100898
5/12/18 9:30 PM	0	42	868	100898
5/12/18 10:00 PM	0	42	867	100898
5/12/18 10:30 PM	0	43	867	100898
5/12/18 11:00 PM	0	43	866	100898
5/12/18 11:30 PM	0	43	866	100898
5/13/18 12:00 AM	0	43	865	100898

5/13/18 12:30 AM	0	43	865	100898
5/13/18 1:00 AM	0	44	864	100898
5/13/18 1:30 AM	0	44	864	100898
5/13/18 2:00 AM	0	44	863	100898
5/13/18 2:30 AM	0	44	862	100898
5/13/18 3:00 AM	0	44	862	100898
5/13/18 3:30 AM	0	44	861	100898
5/13/18 4:00 AM	0	44	861	100898
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5/13/18 10:00 AM	0	46	855	100898
5/13/18 10:30 AM	0	46	854	100898
5/13/18 11:00 AM	0	47	854	100898
5/13/18 11:30 AM	0	47	853	100898
5/13/18 12:00 PM	0	47	853	100898
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5/13/18 2:30 PM	0	48	851	100898
5/13/18 3:00 PM	0	48	850	100898
5/13/18 3:30 PM	0	48	850	100898
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5/13/18 4:30 PM	0	48	849	100898
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5/13/18 5:30 PM	0	49	848	100898
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5/13/18 6:30 PM	0	49	847	100898
5/13/18 7:00 PM	0	49	847	100898
5/13/18 7:30 PM	0	49	846	100898
5/13/18 8:00 PM	0	49	846	100898
5/13/18 8:30 PM	0	50	845	100898
5/13/18 9:00 PM	0	50	845	100898
5/13/18 9:30 PM	0	50	845	100898
5/13/18 10:00 PM	0	50	844	100898
5/13/18 10:30 PM	0	50	844	100898
5/13/18 11:00 PM	0	50	844	100898
5/13/18 11:30 PM	0	50	843	100898

5/14/18 12:00 AM	0	50	843	100898
5/14/18 12:30 AM	0	51	842	100898
5/14/18 1:00 AM	0	51	842	100898
5/14/18 1:30 AM	0	51	842	100898
5/14/18 2:00 AM	0	51	841	100898
5/14/18 2:30 AM	0	51	841	100898
5/14/18 3:00 AM	0	51	840	100898
5/14/18 3:30 AM	0	51	840	100898
5/14/18 4:00 AM	0	51	840	100898
5/14/18 4:30 AM	0	51	839	100898
5/14/18 5:00 AM	0	51	839	100898
5/14/18 5:30 AM	0	52	839	100898
5/14/18 6:00 AM	0	52	838	100898
5/14/18 6:30 AM	0	52	838	100898
5/14/18 7:00 AM	0	52	838	100898
5/14/18 7:30 AM	0	52	838	100898
5/14/18 8:00 AM	0	52	837	100898
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5/14/18 1:00 PM	24	6	1148	101074
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5/14/18 2:30 PM	31	4	1206	101134
5/14/18 3:00 PM	31	4	1214	101155
5/14/18 3:30 PM	29	4	1221	101177
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5/14/18 4:30 PM	31	3	1234	101219
5/14/18 5:00 PM	29	3	1239	101240
5/14/18 5:30 PM	28	3	1244	101261
5/14/18 6:00 PM	28	3	1248	101282
5/14/18 6:30 PM	28	3	1252	101302
5/14/18 7:00 PM	28	3	1256	101323
5/14/18 7:30 PM	28	3	1259	101344
5/14/18 8:00 PM	30	3	1263	101365
5/14/18 8:30 PM	28	2	1266	101386
5/14/18 9:00 PM	30	2	1269	101407
5/14/18 9:30 PM	30	2	1272	101427
5/14/18 10:00 PM	29	2	1275	101448
5/14/18 10:30 PM	29	2	1278	101469
5/14/18 11:00 PM	28	2	1280	101490

5/14/18 11:30 PM	28	2	1283	101510
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5/15/18 12:30 AM	27	2	1288	101552
5/15/18 1:00 AM	27	2	1291	101572
5/15/18 1:30 AM	27	2	1293	101593
5/15/18 2:00 AM	29	2	1296	101614
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5/15/18 3:00 AM	29	2	1300	101655
5/15/18 3:30 AM	27	2	1302	101675
5/15/18 4:00 AM	30	2	1304	101696
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5/15/18 5:00 AM	30	2	1309	101737
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5/15/18 6:00 AM	29	2	1313	101778
5/15/18 6:30 AM	30	2	1315	101798
5/15/18 7:00 AM	27	1	1317	101819
5/15/18 7:30 AM	30	1	1319	101839
5/15/18 8:00 AM	26	1	1320	101859
5/15/18 8:30 AM	29	1	1322	101880
5/15/18 9:00 AM	26	1	1324	101900
5/15/18 9:30 AM	28	1	1326	101921
5/15/18 10:00 AM	30	1	1328	101941
5/15/18 10:30 AM	28	1	1329	101961
5/15/18 11:00 AM	29	1	1331	101982
5/15/18 11:30 AM	27	1	1332	102002
5/15/18 12:00 PM	29	1	1334	102022
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5/15/18 1:00 PM	26	1	1337	102062
5/15/18 1:30 PM	29	1	1338	102082
5/15/18 2:00 PM	27	1	1340	102102
5/15/18 2:30 PM	26	1	1342	102122
5/15/18 3:00 PM	29	1	1343	102142
5/15/18 3:30 PM	29	1	1344	102162
5/15/18 4:00 PM	29	1	1346	102182
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5/15/18 5:00 PM	28	1	1348	102222
5/15/18 5:30 PM	27	1	1349	102242
5/15/18 6:00 PM	29	1	1351	102262
5/15/18 6:30 PM	28	1	1353	102281
5/15/18 7:00 PM	29	1	1355	102301
5/15/18 7:30 PM	28	1	1357	102321
5/15/18 8:00 PM	29	1	1358	102341
5/15/18 8:30 PM	27	1	1359	102361
5/15/18 9:00 PM	27	1	1361	102380
5/15/18 9:30 PM	25	1	1362	102400
5/15/18 10:00 PM	26	1	1364	102420
5/15/18 10:30 PM	28	1	1365	102440



5/15/18 11:00 PM	29	1	1366	102459
5/15/18 11:30 PM	27	1	1368	102479
5/16/18 12:00 AM	27	1	1370	102499
5/16/18 12:30 AM	26	1	1371	102518
5/16/18 1:00 AM	29	1	1372	102538
5/16/18 1:30 AM	28	1	1373	102558
5/16/18 2:00 AM	28	1	1375	102577
5/16/18 2:30 AM	28	1	1376	102597
5/16/18 3:00 AM	29	1	1377	102617
5/16/18 3:30 AM	28	1	1379	102636
5/16/18 4:00 AM	26	1	1380	102656
5/16/18 4:30 AM	28	1	1381	102676
5/16/18 5:00 AM	27	1	1383	102695
5/16/18 5:30 AM	28	1	1384	102715
5/16/18 6:00 AM	28	1	1385	102734
5/16/18 6:30 AM	28	1	1387	102754
5/16/18 7:00 AM	27	1	1388	102774
5/16/18 7:30 AM	28	1	1389	102793
5/16/18 8:00 AM	27	1	1390	102813
5/16/18 8:30 AM	28	1	1392	102833
5/16/18 9:00 AM	28	1	1393	102852
5/16/18 9:30 AM	28	1	1394	102872
5/16/18 10:00 AM	28	1	1394	102891
5/16/18 10:30 AM	28	1	1395	102911
5/16/18 11:00 AM	27	1	1396	102930
5/16/18 11:30 AM	29	1	1398	102950
5/16/18 12:00 PM	27	1	1398	102969
5/16/18 12:30 PM	0	1	1222	102975
5/16/18 1:00 PM	0	2	1175	102975
5/16/18 1:30 PM	0	3	1149	102975
5/16/18 2:00 PM	0	4	1130	102975
5/16/18 2:30 PM	0	4	1116	102975
5/16/18 3:00 PM	0	5	1103	102975
5/16/18 3:30 PM	0	6	1093	102975
5/16/18 4:00 PM	0	6	1084	102975
5/16/18 4:30 PM	0	7	1076	102975
5/16/18 5:00 PM	0	8	1069	102975
5/16/18 5:30 PM	0	8	1063	102975
5/16/18 6:00 PM	0	9	1057	102975
5/16/18 6:30 PM	0	9	1051	102975
5/16/18 7:00 PM	0	10	1046	102975
5/16/18 7:30 PM	0	10	1041	102975
5/16/18 8:00 PM	0	11	1037	102975
5/16/18 8:30 PM	0	12	1032	102975
5/16/18 9:00 PM	0	12	1029	102975
5/16/18 9:30 PM	0	13	1025	102975
5/16/18 10:00 PM	0	13	1021	102975

5/16/18 10:30 PM	0	13	1018	102975
5/16/18 11:00 PM	0	14	1014	102975
5/16/18 11:30 PM	0	14	1011	102975
5/17/18 12:00 AM	0	15	1008	102975
5/17/18 12:30 AM	0	15	1005	102975
5/17/18 1:00 AM	0	16	1003	102975
5/17/18 1:30 AM	0	16	1000	102975
5/17/18 2:00 AM	0	17	997	102975
5/17/18 2:30 AM	0	17	995	102975
5/17/18 3:00 AM	0	17	992	102975
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5/17/18 4:00 AM	0	18	988	102975
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5/17/18 6:30 AM	0	20	978	102975
5/17/18 7:00 AM	0	20	976	102975
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5/17/18 9:00 AM	0	21	968	102975
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5/17/18 10:30 AM	0	22	963	102975
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5/17/18 11:30 AM	0	23	960	102975
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5/18/18 5:30 AM	0	32	919	102975
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5/18/18 2:30 PM	0	36	904	102975
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5/18/18 4:30 PM	0	37	902	102975
5/18/18 5:00 PM	0	37	901	102975
5/18/18 5:30 PM	0	37	900	102975
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5/18/18 6:30 PM	0	38	899	102975
5/18/18 7:00 PM	0	38	898	102975
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5/23/18 2:30 PM	0	64	815	102975
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5/23/18 4:30 PM	0	64	814	102975
5/23/18 5:00 PM	0	65	814	102975
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5/31/18 7:30 PM	0	1	754	102975
5/31/18 8:00 PM	0	1	754	102975
5/31/18 8:30 PM	0	1	754	102975
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5/31/18 9:30 PM	0	1	754	102975
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5/31/18 10:30 PM	0	1	754	102975
5/31/18 11:00 PM	0	1	754	102975
5/31/18 11:30 PM	0	1	753	102975
6/1/18 12:00 AM	0	1	753	102975
6/1/18 12:30 AM	0	1	753	102975
6/1/18 1:00 AM	0	1	753	102975
6/1/18 1:30 AM	0	1	753	102975
6/1/18 2:00 AM	0	1	753	102975
6/1/18 2:30 AM	0	1	753	102975
6/1/18 3:00 AM	0	1	753	102975
6/1/18 3:30 AM	0	1	753	102975
6/1/18 4:00 AM	0	1	752	102975
6/1/18 4:30 AM	0	1	752	102975
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6/1/18 6:30 AM	0	1	752	102975
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6/1/18 7:30 AM	0	1	752	102975
6/1/18 8:00 AM	0	1	752	102975
6/1/18 8:30 AM	0	1	752	102975
6/1/18 9:00 AM	0	1	752	102975
6/1/18 9:30 AM	0	1	752	102975
6/1/18 10:00 AM	0	1	751	102975
6/1/18 10:30 AM	0	1	751	102975
6/1/18 11:00 AM	0	2	751	102975
6/1/18 11:30 AM	0	2	751	102975
6/1/18 12:00 PM	0	2	750	102975
6/1/18 12:30 PM	0	2	750	102975
6/1/18 1:00 PM	0	2	750	102975
6/1/18 1:30 PM	0	2	750	102975
6/1/18 2:00 PM	0	2	750	102975

6/1/18 2:30 PM	0	2	750	102975
6/1/18 3:00 PM	0	2	750	102975
6/1/18 3:30 PM	0	2	750	102975
6/1/18 4:00 PM	0	2	750	102975
6/1/18 4:30 PM	0	2	750	102975
6/1/18 5:00 PM	0	2	749	102975
6/1/18 5:30 PM	0	2	749	102975
6/1/18 6:00 PM	0	2	749	102975
6/1/18 6:30 PM	0	2	749	102975
6/1/18 7:00 PM	0	2	749	102975
6/1/18 7:30 PM	0	2	749	102975
6/1/18 8:00 PM	0	2	749	102975
6/1/18 8:30 PM	0	2	749	102975
6/1/18 9:00 PM	0	2	749	102975
6/1/18 9:30 PM	0	2	749	102975
6/1/18 10:00 PM	0	2	749	102975
6/1/18 10:30 PM	0	2	749	102975
6/1/18 11:00 PM	0	2	748	102975
6/1/18 11:30 PM	0	2	748	102975
6/2/18 12:00 AM	0	2	748	102975
6/2/18 12:30 AM	0	2	748	102975
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6/2/18 1:30 AM	0	2	748	102975
6/2/18 2:00 AM	0	2	748	102975
6/2/18 2:30 AM	0	2	748	102975
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6/2/18 3:30 AM	0	2	747	102975
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6/2/18 4:30 AM	0	2	747	102975
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6/2/18 7:30 AM	0	2	747	102975
6/2/18 8:00 AM	0	2	747	102975
6/2/18 8:30 AM	0	2	747	102975
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6/2/18 9:30 AM	0	2	746	102975
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6/2/18 12:00 PM	0	2	746	102975
6/2/18 12:30 PM	0	2	745	102975
6/2/18 1:00 PM	0	2	745	102975
6/2/18 1:30 PM	0	2	745	102975

6/2/18 2:00 PM	0	2	745	102975
6/2/18 2:30 PM	0	2	745	102975
6/2/18 3:00 PM	0	2	745	102975
6/2/18 3:30 PM	0	2	745	102975
6/2/18 4:00 PM	0	2	745	102975
6/2/18 4:30 PM	0	2	745	102975
6/2/18 5:00 PM	0	2	745	102975
6/2/18 5:30 PM	0	3	745	102975
6/2/18 6:00 PM	0	3	744	102975
6/2/18 6:30 PM	0	3	744	102975
6/2/18 7:00 PM	0	3	744	102975
6/2/18 7:30 PM	0	3	744	102975
6/2/18 8:00 PM	0	3	744	102975
6/2/18 8:30 PM	0	3	744	102975
6/2/18 9:00 PM	0	3	744	102975
6/2/18 9:30 PM	0	3	744	102975
6/2/18 10:00 PM	0	3	744	102975
6/2/18 10:30 PM	0	3	744	102975
6/2/18 11:00 PM	0	3	744	102975
6/2/18 11:30 PM	0	3	744	102975
6/3/18 12:00 AM	0	3	743	102975
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6/3/18 2:30 AM	0	3	743	102975
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6/3/18 4:30 AM	0	3	742	102975
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6/3/18 6:30 AM	0	3	742	102975
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6/3/18 7:30 AM	0	3	742	102975
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6/3/18 8:30 AM	0	3	742	102975
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6/3/18 11:00 AM	0	3	741	102975
6/3/18 11:30 AM	0	3	741	102975
6/3/18 12:00 PM	0	3	741	102975
6/3/18 12:30 PM	0	3	741	102975
6/3/18 1:00 PM	0	3	740	102975

6/3/18 1:30 PM	0	3	741	102975
6/3/18 2:00 PM	0	3	741	102975
6/3/18 2:30 PM	0	3	741	102975
6/3/18 3:00 PM	0	3	741	102975
6/3/18 3:30 PM	0	3	740	102975
6/3/18 4:00 PM	0	3	740	102975
6/3/18 4:30 PM	0	3	740	102975
6/3/18 5:00 PM	0	3	740	102975
6/3/18 5:30 PM	0	3	740	102975
6/3/18 6:00 PM	0	3	740	102975
6/3/18 6:30 PM	0	3	740	102975
6/3/18 7:00 PM	0	3	739	102975
6/3/18 7:30 PM	0	3	739	102975
6/3/18 8:00 PM	0	3	739	102975
6/3/18 8:30 PM	0	3	739	102975
6/3/18 9:00 PM	0	3	739	102975
6/3/18 9:30 PM	0	3	739	102975
6/3/18 10:00 PM	0	3	739	102975
6/3/18 10:30 PM	0	3	739	102975
6/3/18 11:00 PM	0	3	739	102975
6/3/18 11:30 PM	0	3	739	102975
6/4/18 12:00 AM	0	3	739	102975
6/4/18 12:30 AM	0	3	739	102975
6/4/18 1:00 AM	0	3	739	102975
6/4/18 1:30 AM	0	3	739	102975
6/4/18 2:00 AM	0	3	738	102975
6/4/18 2:30 AM	0	3	738	102975
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6/4/18 5:00 AM	0	3	738	102975
6/4/18 5:30 AM	0	3	738	102975
6/4/18 6:00 AM	0	3	738	102975
6/4/18 6:30 AM	0	3	738	102975
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6/4/18 7:30 AM	0	3	738	102975
6/4/18 8:00 AM	0	3	738	102975
6/4/18 8:30 AM	0	3	737	102975
6/4/18 9:00 AM	0	3	737	102975
6/4/18 9:30 AM	0	3	737	102975
6/4/18 10:00 AM	0	3	737	102975
6/4/18 10:30 AM	0	3	737	102975
6/4/18 11:00 AM	0	3	737	102975
6/4/18 11:30 AM	0	3	737	102975
6/4/18 12:00 PM	0	3	737	102975
6/4/18 12:30 PM	0	3	736	102975

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6/4/18 1:30 PM	0	4	736	102975
6/4/18 2:00 PM	0	4	736	102975
6/4/18 2:30 PM	0	4	736	102975
6/4/18 3:00 PM	0	4	736	102975
6/4/18 3:30 PM	0	4	736	102975
6/4/18 4:00 PM	0	4	736	102975
6/4/18 4:30 PM	0	4	736	102975
6/4/18 5:00 PM	0	4	735	102975
6/4/18 5:30 PM	0	4	735	102975
6/4/18 6:00 PM	0	4	735	102975
6/4/18 6:30 PM	0	4	735	102975
6/4/18 7:00 PM	0	4	735	102975
6/4/18 7:30 PM	0	4	735	102975
6/4/18 8:00 PM	0	4	735	102975
6/4/18 8:30 PM	0	4	735	102975
6/4/18 9:00 PM	0	4	735	102975
6/4/18 9:30 PM	0	4	735	102975
6/4/18 10:00 PM	0	4	735	102975
6/4/18 10:30 PM	0	4	735	102975
6/4/18 11:00 PM	0	4	735	102975
6/4/18 11:30 PM	0	4	735	102975
6/5/18 12:00 AM	0	4	735	102975
6/5/18 12:30 AM	0	4	734	102975
6/5/18 1:00 AM	0	4	734	102975
6/5/18 1:30 AM	0	4	734	102975
6/5/18 2:00 AM	0	4	734	102975
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6/5/18 3:00 AM	0	4	734	102975
6/5/18 3:30 AM	0	4	734	102975
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6/5/18 4:30 AM	0	4	734	102975
6/5/18 5:00 AM	0	4	734	102975
6/5/18 5:30 AM	0	4	733	102975
6/5/18 6:00 AM	0	4	733	102975
6/5/18 6:30 AM	0	4	733	102975
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6/5/18 7:30 AM	0	4	733	102975
6/5/18 8:00 AM	0	4	733	102975
6/5/18 8:30 AM	0	4	733	102975
6/5/18 9:00 AM	0	4	733	102975
6/5/18 9:30 AM	0	4	733	102975
6/5/18 10:00 AM	0	4	733	102975
6/5/18 10:30 AM	0	4	733	102975
6/5/18 11:00 AM	0	4	733	102975
6/5/18 11:30 AM	0	4	732	102975
6/5/18 12:00 PM	0	4	732	102975

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6/5/18 2:30 PM	0	4	732	102975
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6/5/18 3:30 PM	0	4	732	102975
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6/5/18 4:30 PM	0	4	732	102975
6/5/18 5:00 PM	0	4	731	102975
6/5/18 5:30 PM	0	4	731	102975
6/5/18 6:00 PM	0	5	731	102975
6/5/18 6:30 PM	0	5	731	102975
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6/5/18 8:30 PM	0	5	731	102975
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6/5/18 9:30 PM	0	5	731	102975
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6/5/18 10:30 PM	0	5	731	102975
6/5/18 11:00 PM	0	5	730	102975
6/5/18 11:30 PM	0	5	730	102975
6/6/18 12:00 AM	0	4	730	102975
6/6/18 12:30 AM	0	4	730	102975
6/6/18 1:00 AM	0	4	730	102975
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6/6/18 4:30 AM	0	4	730	102975
6/6/18 5:00 AM	0	4	729	102975
6/6/18 5:30 AM	0	4	729	102975
6/6/18 6:00 AM	0	4	729	102975
6/6/18 6:30 AM	0	4	729	102975
6/6/18 7:00 AM	0	4	729	102975
6/6/18 7:30 AM	0	4	729	102975
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6/6/18 8:30 AM	0	4	729	102975
6/6/18 9:00 AM	0	4	729	102975
6/6/18 9:30 AM	0	4	729	102975
6/6/18 10:00 AM	0	4	729	102975
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6/6/18 11:00 AM	0	4	729	102975
6/6/18 11:30 AM	0	5	728	102975

6/6/18 12:00 PM	0	5	728	102975
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6/6/18 2:00 PM	0	5	728	102975
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6/6/18 4:30 PM	0	5	727	102975
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6/6/18 11:00 PM	0	5	726	102975
6/6/18 11:30 PM	0	5	726	102975
6/7/18 12:00 AM	0	5	726	102975
6/7/18 12:30 AM	0	5	726	102975
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6/7/18 4:30 AM	0	5	726	102975
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6/7/18 8:00 AM	0	5	726	102975
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6/7/18 9:30 AM	0	5	725	102975
6/7/18 10:00 AM	0	5	725	102975
6/7/18 10:30 AM	0	5	725	102975
6/7/18 11:00 AM	0	5	724	102975

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6/7/18 12:00 PM	0	5	724	102975
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6/7/18 2:00 PM	0	5	724	102975
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6/7/18 6:30 PM	0	6	723	102975
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6/7/18 7:30 PM	0	6	723	102975
6/7/18 8:00 PM	0	6	723	102975
6/7/18 8:30 PM	0	6	723	102975
6/7/18 9:00 PM	0	6	723	102975
6/7/18 9:30 PM	0	6	723	102975
6/7/18 10:00 PM	0	6	723	102975
6/7/18 10:30 PM	0	6	723	102975
6/7/18 11:00 PM	0	6	723	102975
6/7/18 11:30 PM	0	6	722	102975
6/8/18 12:00 AM	0	6	722	102975
6/8/18 12:30 AM	0	6	722	102975
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6/8/18 1:30 AM	0	6	722	102975
6/8/18 2:00 AM	0	6	722	102975
6/8/18 2:30 AM	0	6	722	102975
6/8/18 3:00 AM	0	6	722	102975
6/8/18 3:30 AM	0	6	722	102975
6/8/18 4:00 AM	0	6	722	102975
6/8/18 4:30 AM	0	6	722	102975
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6/8/18 5:30 AM	0	5	722	102975
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6/8/18 6:30 AM	0	5	722	102975
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6/8/18 7:30 AM	0	5	722	102975
6/8/18 8:00 AM	0	5	722	102975
6/8/18 8:30 AM	0	5	721	102975
6/8/18 9:00 AM	0	5	721	102975
6/8/18 9:30 AM	0	6	721	102975
6/8/18 10:00 AM	0	6	721	102975
6/8/18 10:30 AM	0	6	721	102975



6/8/18 11:00 AM	0	6	721	102975
6/8/18 11:30 AM	0	6	721	102975
6/8/18 12:00 PM	0	6	720	102975
6/8/18 12:30 PM	0	6	720	102975
6/8/18 1:00 PM	0	6	720	102975
6/8/18 1:30 PM	0	6	720	102975
6/8/18 2:00 PM	0	6	720	102975
6/8/18 2:30 PM	0	6	720	102975
6/8/18 3:00 PM	0	6	720	102975
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6/24/18 8:00 PM	0	15	674	102975
6/24/18 8:30 PM	0	15	674	102975
6/24/18 9:00 PM	0	15	674	102975
6/24/18 9:30 PM	0	15	674	102975
6/24/18 10:00 PM	0	15	674	102975
6/24/18 10:30 PM	0	15	674	102975
6/24/18 11:00 PM	0	15	674	102975
6/24/18 11:30 PM	0	15	674	102975
6/25/18 12:00 AM	0	15	674	102975
6/25/18 12:30 AM	0	15	674	102975
6/25/18 1:00 AM	0	15	674	102975
6/25/18 1:30 AM	0	15	674	102975
6/25/18 2:00 AM	0	15	674	102975

6/25/18 2:30 AM	0	15	674	102975
6/25/18 3:00 AM	0	15	674	102975
6/25/18 3:30 AM	0	15	674	102975
6/25/18 4:00 AM	0	15	673	102975
6/25/18 4:30 AM	0	15	673	102975
6/25/18 5:00 AM	0	15	673	102975
6/25/18 5:30 AM	0	15	673	102975
6/25/18 6:00 AM	0	14	673	102975
6/25/18 6:30 AM	0	14	673	102975
6/25/18 7:00 AM	0	14	674	102975
6/25/18 7:30 AM	0	14	674	102975
6/25/18 8:00 AM	0	14	673	102975
6/25/18 8:30 AM	0	15	673	102975
6/25/18 9:00 AM	0	15	673	102975
6/25/18 9:30 AM	0	15	673	102975
6/25/18 10:00 AM	0	15	673	102975
6/25/18 10:30 AM	0	15	673	102975
6/25/18 11:00 AM	0	15	673	102975
6/25/18 11:30 AM	0	15	672	102975
6/25/18 12:00 PM	0	15	672	102975
6/25/18 12:30 PM	0	15	672	102975
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6/25/18 1:30 PM	0	15	672	102975
6/25/18 2:00 PM	0	15	672	102975
6/25/18 2:30 PM	0	15	672	102975
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6/25/18 3:30 PM	0	15	672	102975
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6/25/18 4:30 PM	0	15	672	102975
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6/25/18 9:30 PM	0	16	672	102975
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6/25/18 10:30 PM	0	16	672	102975
6/25/18 11:00 PM	0	15	672	102975
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6/26/18 12:00 AM	0	15	672	102975
6/26/18 12:30 AM	0	15	672	102975
6/26/18 1:00 AM	0	15	671	102975
6/26/18 1:30 AM	0	15	671	102975

6/26/18 2:00 AM	0	15	671	102975
6/26/18 2:30 AM	0	15	671	102975
6/26/18 3:00 AM	0	15	671	102975
6/26/18 3:30 AM	0	15	671	102975
6/26/18 4:00 AM	0	15	671	102975
6/26/18 4:30 AM	0	15	671	102975
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6/26/18 5:30 AM	0	15	671	102975
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6/26/18 6:30 AM	0	15	671	102975
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6/26/18 7:30 AM	0	15	671	102975
6/26/18 8:00 AM	0	15	671	102975
6/26/18 8:30 AM	0	15	671	102975
6/26/18 9:00 AM	0	15	671	102975
6/26/18 9:30 AM	0	15	671	102975
6/26/18 10:00 AM	0	15	671	102975
6/26/18 10:30 AM	0	15	671	102975
6/26/18 11:00 AM	0	15	671	102975
6/26/18 11:30 AM	0	15	671	102975
6/26/18 12:00 PM	0	15	670	102975
6/26/18 12:30 PM	0	16	670	102975
6/26/18 1:00 PM	0	16	670	102975
6/26/18 1:30 PM	0	16	670	102975
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6/26/18 2:30 PM	0	16	670	102975
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6/26/18 3:30 PM	0	16	670	102975
6/26/18 4:00 PM	0	16	670	102975
6/26/18 4:30 PM	0	16	670	102975
6/26/18 5:00 PM	0	16	670	102975
6/26/18 5:30 PM	0	16	670	102975
6/26/18 6:00 PM	0	16	670	102975
6/26/18 6:30 PM	0	16	670	102975
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6/26/18 7:30 PM	0	16	670	102975
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6/26/18 8:30 PM	0	16	669	102975
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6/26/18 9:30 PM	0	16	670	102975
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6/26/18 11:30 PM	0	16	669	102975
6/27/18 12:00 AM	0	16	669	102975
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6/27/18 1:00 AM	0	16	669	102975

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6/27/18 2:30 AM	0	16	669	102975
6/27/18 3:00 AM	0	16	669	102975
6/27/18 3:30 AM	0	16	669	102975
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6/27/18 4:30 AM	0	16	669	102975
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6/27/18 5:30 AM	0	16	669	102975
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6/27/18 6:30 AM	0	16	669	102975
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6/27/18 7:30 AM	0	16	669	102975
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6/27/18 8:30 AM	0	16	669	102975
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6/27/18 9:30 AM	0	16	669	102975
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6/27/18 10:30 AM	0	16	669	102975
6/27/18 11:00 AM	0	16	668	102975
6/27/18 11:30 AM	0	16	668	102975
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6/27/18 12:30 PM	0	16	668	102975
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6/27/18 1:30 PM	0	16	668	102975
6/27/18 2:00 PM	0	16	668	102975
6/27/18 2:30 PM	0	17	668	102975
6/27/18 3:00 PM	0	17	668	102975
6/27/18 3:30 PM	0	17	668	102975
6/27/18 4:00 PM	0	17	668	102975
6/27/18 4:30 PM	0	17	668	102975
6/27/18 5:00 PM	0	17	668	102975
6/27/18 5:30 PM	0	17	668	102975
6/27/18 6:00 PM	0	17	668	102975
6/27/18 6:30 PM	0	17	668	102975
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6/27/18 7:30 PM	0	17	668	102975
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6/27/18 8:30 PM	0	17	667	102975
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6/27/18 9:30 PM	0	17	668	102975
6/27/18 10:00 PM	0	17	667	102975
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6/27/18 11:00 PM	0	17	668	102975
6/27/18 11:30 PM	0	17	667	102975
6/28/18 12:00 AM	0	17	667	102975
6/28/18 12:30 AM	0	17	667	102975

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6/28/18 1:30 AM	0	17	667	102975
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6/28/18 2:30 AM	0	16	667	102975
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6/28/18 3:30 AM	0	16	667	102975
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6/28/18 4:30 AM	0	16	667	102975
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6/28/18 5:30 AM	0	16	667	102975
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6/28/18 6:30 AM	0	16	667	102975
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6/28/18 7:30 AM	0	16	667	102975
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6/28/18 8:30 AM	0	16	667	102975
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6/28/18 9:30 AM	0	16	667	102975
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6/28/18 11:30 AM	0	17	666	102975
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6/28/18 12:30 PM	0	17	666	102975
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6/28/18 1:30 PM	0	17	666	102975
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6/28/18 2:30 PM	0	17	666	102975
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6/28/18 3:30 PM	0	17	666	102975
6/28/18 4:00 PM	0	17	665	102975
6/28/18 4:30 PM	0	17	666	102975
6/28/18 5:00 PM	0	17	666	102975
6/28/18 5:30 PM	0	17	666	102975
6/28/18 6:00 PM	0	17	666	102975
6/28/18 6:30 PM	0	17	666	102975
6/28/18 7:00 PM	0	17	665	102975
6/28/18 7:30 PM	0	17	666	102975
6/28/18 8:00 PM	0	17	666	102975
6/28/18 8:30 PM	0	17	666	102975
6/28/18 9:00 PM	0	17	665	102975
6/28/18 9:30 PM	0	17	665	102975
6/28/18 10:00 PM	0	17	665	102975
6/28/18 10:30 PM	0	17	665	102975
6/28/18 11:00 PM	0	17	665	102975
6/28/18 11:30 PM	0	17	665	102975
6/29/18 12:00 AM	0	17	665	102975

6/29/18 12:30 AM	0	17	665	102975
6/29/18 1:00 AM	0	17	665	102975
6/29/18 1:30 AM	0	17	665	102975
6/29/18 2:00 AM	0	17	665	102975
6/29/18 2:30 AM	0	17	665	102975
6/29/18 3:00 AM	0	17	665	102975
6/29/18 3:30 AM	0	17	665	102975
6/29/18 4:00 AM	0	17	665	102975
6/29/18 4:30 AM	0	17	665	102975
6/29/18 5:00 AM	0	17	665	102975
6/29/18 5:30 AM	0	17	665	102975
6/29/18 6:00 AM	0	17	665	102975
6/29/18 6:30 AM	0	17	665	102975
6/29/18 7:00 AM	0	17	665	102975
6/29/18 7:30 AM	0	17	665	102975
6/29/18 8:00 AM	0	17	665	102975
6/29/18 8:30 AM	0	17	665	102975
6/29/18 9:00 AM	0	17	665	102975
6/29/18 9:30 AM	0	17	665	102975
6/29/18 10:00 AM	0	17	664	102975
6/29/18 10:30 AM	0	17	664	102975
6/29/18 11:00 AM	0	17	664	102975
6/29/18 11:30 AM	0	17	664	102975
6/29/18 12:00 PM	0	17	664	102975
6/29/18 12:30 PM	0	17	664	102975
6/29/18 1:00 PM	0	17	664	102975
6/29/18 1:30 PM	0	17	664	102975
6/29/18 2:00 PM	0	17	664	102975
6/29/18 2:30 PM	32	5	840	102983
6/29/18 3:00 PM	32	Bad	917	103005
6/29/18 3:30 PM	31	Bad	949	103027
6/29/18 4:00 PM	0	Bad	808	103042
6/29/18 4:30 PM	0	Bad	744	103042
6/29/18 5:00 PM	0	Bad	722	103042
6/29/18 5:30 PM	0	Bad	710	103042
6/29/18 6:00 PM	0	Bad	703	103042
6/29/18 6:30 PM	0	Bad	697	103042
6/29/18 7:00 PM	0	Bad	694	103042
6/29/18 7:30 PM	0	Bad	691	103042
6/29/18 8:00 PM	0	-5	688	103042
6/29/18 8:30 PM	0	-5	686	103042
6/29/18 9:00 PM	0	-4	685	103042
6/29/18 9:30 PM	0	-4	684	103042
6/29/18 10:00 PM	0	-3	683	103042
6/29/18 10:30 PM	0	-3	682	103042
6/29/18 11:00 PM	0	-2	681	103042
6/29/18 11:30 PM	0	-2	680	103042

6/30/18 12:00 AM	0	-1	679	103042
6/30/18 12:30 AM	0	-1	678	103042
6/30/18 1:00 AM	0	0	678	103042
6/30/18 1:30 AM	0	0	677	103042
6/30/18 2:00 AM	0	1	677	103042
6/30/18 2:30 AM	0	1	676	103042
6/30/18 3:00 AM	0	1	676	103042
6/30/18 3:30 AM	0	2	675	103042
6/30/18 4:00 AM	0	2	675	103042
6/30/18 4:30 AM	0	3	675	103042
6/30/18 5:00 AM	0	3	674	103042
6/30/18 5:30 AM	0	3	674	103042
6/30/18 6:00 AM	0	3	674	103042
6/30/18 6:30 AM	0	4	673	103042
6/30/18 7:00 AM	0	4	673	103042
6/30/18 7:30 AM	0	4	673	103042
6/30/18 8:00 AM	0	5	673	103042
6/30/18 8:30 AM	0	5	672	103042
6/30/18 9:00 AM	0	5	672	103042
6/30/18 9:30 AM	0	6	672	103042
6/30/18 10:00 AM	0	6	672	103042
6/30/18 10:30 AM	0	6	671	103042
6/30/18 11:00 AM	0	6	671	103042
6/30/18 11:30 AM	0	7	671	103042
6/30/18 12:00 PM	0	7	671	103042
6/30/18 12:30 PM	0	7	670	103042
6/30/18 1:00 PM	0	8	670	103042
6/30/18 1:30 PM	0	8	670	103042
6/30/18 2:00 PM	0	8	670	103042
6/30/18 2:30 PM	0	8	670	103042
6/30/18 3:00 PM	0	8	670	103042
6/30/18 3:30 PM	0	9	670	103042
6/30/18 4:00 PM	0	9	669	103042
6/30/18 4:30 PM	0	9	669	103042
6/30/18 5:00 PM	0	9	669	103042
6/30/18 5:30 PM	0	9	669	103042
6/30/18 6:00 PM	0	10	669	103042
6/30/18 6:30 PM	0	10	669	103042
6/30/18 7:00 PM	0	10	669	103042
6/30/18 7:30 PM	0	10	668	103042
6/30/18 8:00 PM	0	10	668	103042
6/30/18 8:30 PM	0	10	668	103042
6/30/18 9:00 PM	0	11	668	103042
6/30/18 9:30 PM	0	11	668	103042
6/30/18 10:00 PM	0	11	668	103042
6/30/18 10:30 PM	0	11	668	103042
6/30/18 11:00 PM	0	11	668	103042

6/30/18 11:30 PM

0

11

668

103042



# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
7/1/18 12:00 AM	0	11	668	103042
7/1/18 12:30 AM	0	11	667	103042
7/1/18 1:00 AM	0	11	667	103042
7/1/18 1:30 AM	0	11	667	103042
7/1/18 2:00 AM	0	11	667	103042
7/1/18 2:30 AM	0	12	667	103042
7/1/18 3:00 AM	0	12	667	103042
7/1/18 3:30 AM	0	12	667	103042
7/1/18 4:00 AM	0	12	667	103042
7/1/18 4:30 AM	0	12	667	103042
7/1/18 5:00 AM	0	12	667	103042
7/1/18 5:30 AM	0	12	666	103042
7/1/18 6:00 AM	0	12	666	103042
7/1/18 6:30 AM	0	12	666	103042
7/1/18 7:00 AM	0	12	666	103042
7/1/18 7:30 AM	0	12	666	103042
7/1/18 8:00 AM	0	12	666	103042
7/1/18 8:30 AM	0	12	666	103042
7/1/18 9:00 AM	0	13	666	103042
7/1/18 9:30 AM	0	13	666	103042
7/1/18 10:00 AM	0	13	666	103042
7/1/18 10:30 AM	0	13	666	103042
7/1/18 11:00 AM	0	13	666	103042
7/1/18 11:30 AM	0	13	665	103042
7/1/18 12:00 PM	0	13	665	103042
7/1/18 12:30 PM	0	13	665	103042
7/1/18 1:00 PM	0	13	665	103042
7/1/18 1:30 PM	0	14	665	103042
7/1/18 2:00 PM	0	14	665	103042
7/1/18 2:30 PM	0	14	665	103042
7/1/18 3:00 PM	0	14	665	103042
7/1/18 3:30 PM	0	14	665	103042
7/1/18 4:00 PM	0	14	665	103042
7/1/18 4:30 PM	0	14	665	103042
7/1/18 5:00 PM	0	14	665	103042
7/1/18 5:30 PM	0	14	664	103042
7/1/18 6:00 PM	0	14	664	103042
7/1/18 6:30 PM	0	15	664	103042
7/1/18 7:00 PM	0	15	664	103042
7/1/18 7:30 PM	0	15	664	103042
7/1/18 8:00 PM	0	15	664	103042
7/1/18 8:30 PM	0	15	664	103042
7/1/18 9:00 PM	0	15	664	103042

7/1/18 9:30 PM	0	15	664	103042
7/1/18 10:00 PM	0	15	664	103042
7/1/18 10:30 PM	0	15	664	103042
7/1/18 11:00 PM	0	15	664	103042
7/1/18 11:30 PM	0	15	664	103042
7/2/18 12:00 AM	0	15	664	103042
7/2/18 12:30 AM	0	15	664	103042
7/2/18 1:00 AM	0	15	664	103042
7/2/18 1:30 AM	0	15	663	103042
7/2/18 2:00 AM	0	15	663	103042
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7/2/18 4:30 AM	0	15	663	103042
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7/2/18 8:30 AM	0	15	663	103042
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7/2/18 10:30 AM	0	15	662	103042
7/2/18 11:00 AM	0	15	662	103042
7/2/18 11:30 AM	0	16	662	103042
7/2/18 12:00 PM	0	16	662	103042
7/2/18 12:30 PM	0	16	662	103042
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7/2/18 1:30 PM	0	16	662	103042
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7/2/18 2:30 PM	0	16	662	103042
7/2/18 3:00 PM	0	16	662	103042
7/2/18 3:30 PM	0	16	662	103042
7/2/18 4:00 PM	0	16	662	103042
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9/28/18 9:00 PM	0	48	564	103362
9/28/18 9:30 PM	0	48	564	103362
9/28/18 10:00 PM	0	48	564	103362
9/28/18 10:30 PM	0	48	564	103362
9/28/18 11:00 PM	0	48	564	103362
9/28/18 11:30 PM	0	48	564	103362

9/29/18 12:00 AM	0	48	564	103362
9/29/18 12:30 AM	0	48	564	103362
9/29/18 1:00 AM	0	48	564	103362
9/29/18 1:30 AM	0	48	564	103362
9/29/18 2:00 AM	0	48	564	103362
9/29/18 2:30 AM	0	48	564	103362
9/29/18 3:00 AM	0	48	564	103362
9/29/18 3:30 AM	0	48	564	103362
9/29/18 4:00 AM	0	47	564	103362
9/29/18 4:30 AM	0	47	564	103362
9/29/18 5:00 AM	0	47	564	103362
9/29/18 5:30 AM	0	47	564	103362
9/29/18 6:00 AM	0	47	564	103362
9/29/18 6:30 AM	0	47	564	103362
9/29/18 7:00 AM	0	47	564	103362
9/29/18 7:30 AM	0	47	564	103362
9/29/18 8:00 AM	0	47	564	103362
9/29/18 8:30 AM	0	47	564	103362
9/29/18 9:00 AM	0	47	564	103362
9/29/18 9:30 AM	0	47	564	103362
9/29/18 10:00 AM	0	47	564	103362
9/29/18 10:30 AM	0	48	564	103362
9/29/18 11:00 AM	0	48	564	103362
9/29/18 11:30 AM	0	48	564	103362
9/29/18 12:00 PM	0	48	564	103362
9/29/18 12:30 PM	0	48	564	103362
9/29/18 1:00 PM	0	48	563	103362
9/29/18 1:30 PM	0	48	563	103362
9/29/18 2:00 PM	0	48	563	103362
9/29/18 2:30 PM	0	48	563	103362
9/29/18 3:00 PM	0	48	563	103362
9/29/18 3:30 PM	0	48	563	103362
9/29/18 4:00 PM	0	48	563	103362
9/29/18 4:30 PM	0	48	563	103362
9/29/18 5:00 PM	0	48	563	103362
9/29/18 5:30 PM	0	48	563	103362
9/29/18 6:00 PM	0	48	563	103362
9/29/18 6:30 PM	0	48	563	103362
9/29/18 7:00 PM	0	48	563	103362
9/29/18 7:30 PM	0	48	563	103362
9/29/18 8:00 PM	0	48	563	103362
9/29/18 8:30 PM	0	48	563	103362
9/29/18 9:00 PM	0	48	563	103362
9/29/18 9:30 PM	0	48	563	103362
9/29/18 10:00 PM	0	48	563	103362
9/29/18 10:30 PM	0	48	563	103362
9/29/18 11:00 PM	0	48	563	103362

9/29/18 11:30 PM	0	48	563	103362
9/30/18 12:00 AM	0	48	563	103362
9/30/18 12:30 AM	0	48	563	103362
9/30/18 1:00 AM	0	48	563	103362
9/30/18 1:30 AM	0	48	563	103362
9/30/18 2:00 AM	0	48	563	103362
9/30/18 2:30 AM	0	48	563	103362
9/30/18 3:00 AM	0	48	563	103362
9/30/18 3:30 AM	0	48	563	103362
9/30/18 4:00 AM	0	48	563	103362
9/30/18 4:30 AM	0	48	563	103362
9/30/18 5:00 AM	0	48	563	103362
9/30/18 5:30 AM	0	48	563	103362
9/30/18 6:00 AM	0	48	563	103362
9/30/18 6:30 AM	0	48	563	103362
9/30/18 7:00 AM	0	48	563	103362
9/30/18 7:30 AM	0	48	563	103362
9/30/18 8:00 AM	0	48	563	103362
9/30/18 8:30 AM	0	48	563	103362
9/30/18 9:00 AM	0	48	563	103362
9/30/18 9:30 AM	0	48	563	103362
9/30/18 10:00 AM	0	48	563	103362
9/30/18 10:30 AM	0	48	563	103362
9/30/18 11:00 AM	0	48	563	103362
9/30/18 11:30 AM	0	48	563	103362
9/30/18 12:00 PM	0	48	563	103362
9/30/18 12:30 PM	0	48	563	103362
9/30/18 1:00 PM	0	48	563	103362
9/30/18 1:30 PM	0	48	563	103362
9/30/18 2:00 PM	0	48	562	103362
9/30/18 2:30 PM	0	48	562	103362
9/30/18 3:00 PM	0	49	563	103362
9/30/18 3:30 PM	0	49	563	103362
9/30/18 4:00 PM	0	49	562	103362
9/30/18 4:30 PM	0	49	563	103362
9/30/18 5:00 PM	0	49	562	103362
9/30/18 5:30 PM	0	49	562	103362
9/30/18 6:00 PM	0	49	562	103362
9/30/18 6:30 PM	0	49	563	103362
9/30/18 7:00 PM	0	49	563	103362
9/30/18 7:30 PM	0	49	563	103362
9/30/18 8:00 PM	0	49	563	103362
9/30/18 8:30 PM	0	49	563	103362
9/30/18 9:00 PM	0	49	563	103362
9/30/18 9:30 PM	0	49	563	103362
9/30/18 10:00 PM	0	49	563	103362
9/30/18 10:30 PM	0	49	563	103362

9/30/18 11:00 PM	0	49	563	103362
9/30/18 11:30 PM	0	49	563	103362
10/1/18 12:00 AM	0	49	563	103362





### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/1/18 12:00 AM	0	49	563	103362
10/1/18 12:30 AM	0	49	563	103362
10/1/18 1:00 AM	0	49	562	103362
10/1/18 1:30 AM	0	49	562	103362
10/1/18 2:00 AM	0	49	562	103362
10/1/18 2:30 AM	0	49	562	103362
10/1/18 3:00 AM	0	49	562	103362
10/1/18 3:30 AM	0	49	562	103362
10/1/18 4:00 AM	0	48	562	103362
10/1/18 4:30 AM	0	48	562	103362
10/1/18 5:00 AM	0	48	562	103362
10/1/18 5:30 AM	0	48	562	103362
10/1/18 6:00 AM	0	48	562	103362
10/1/18 6:30 AM	0	48	562	103362
10/1/18 7:00 AM	0	48	562	103362
10/1/18 7:30 AM	0	48	562	103362
10/1/18 8:00 AM	0	48	562	103362
10/1/18 8:30 AM	0	48	562	103362
10/1/18 9:00 AM	0	48	563	103362
10/1/18 9:30 AM	0	48	563	103362
10/1/18 10:00 AM	0	48	562	103362
10/1/18 10:30 AM	0	49	562	103362
10/1/18 11:00 AM	0	49	562	103362
10/1/18 11:30 AM	0	49	562	103362
10/1/18 12:00 PM	0	49	562	103362
10/1/18 12:30 PM	0	49	562	103362
10/1/18 1:00 PM	0	49	562	103362
10/1/18 1:30 PM	0	49	562	103362
10/1/18 2:00 PM	0	49	562	103362
10/1/18 2:30 PM	0	49	562	103362
10/1/18 3:00 PM	0	49	562	103362
10/1/18 3:30 PM	0	49	562	103362
10/1/18 4:00 PM	0	49	562	103362
10/1/18 4:30 PM	0	49	562	103362
10/1/18 5:00 PM	0	49	562	103362
10/1/18 5:30 PM	0	49	562	103362
10/1/18 6:00 PM	0	49	562	103362
10/1/18 6:30 PM	0	49	562	103362
10/1/18 7:00 PM	0	49	562	103362
10/1/18 7:30 PM	0	49	562	103362
10/1/18 8:00 PM	0	49	562	103362
10/1/18 8:30 PM	0	49	562	103362
10/1/18 9:00 PM	0	49	562	103362

# Injection Well Operations Information

		<u>Casing</u>	<u>Injection</u>	
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/1/18 9:30 PM	0	49	562	103362
10/1/18 10:00 PM	0	49	562	103362
10/1/18 10:30 PM	0	49	562	103362
10/1/18 11:00 PM	0	49	562	103362
10/1/18 11:30 PM	0	49	562	103362
10/2/18 12:00 AM	0	49	562	103362
10/2/18 12:30 AM	0	49	562	103362
10/2/18 1:00 AM	0	49	562	103362
10/2/18 1:30 AM	0	49	562	103362
10/2/18 2:00 AM	0	49	561	103362
10/2/18 2:30 AM	0	49	562	103362
10/2/18 3:00 AM	0	49	561	103362
10/2/18 3:30 AM	0	49	561	103362
10/2/18 4:00 AM	0	49	561	103362
10/2/18 4:30 AM	0	49	561	103362
10/2/18 5:00 AM	0	49	561	103362
10/2/18 5:30 AM	0	49	561	103362
10/2/18 6:00 AM	0	49	561	103362
10/2/18 6:30 AM	0	49	561	103362
10/2/18 7:00 AM	0	49	561	103362
10/2/18 7:30 AM	0	49	561	103362
10/2/18 8:00 AM	0	49	562	103362
10/2/18 8:30 AM	0	49	561	103362
10/2/18 9:00 AM	0	49	561	103362
10/2/18 9:30 AM	0	49	561	103362
10/2/18 10:00 AM	0	49	562	103362
10/2/18 10:30 AM	0	49	562	103362
10/2/18 11:00 AM	0	49	561	103362
10/2/18 11:30 AM	0	49	561	103362
10/2/18 12:00 PM	0	49	561	103362
10/2/18 12:30 PM	0	49	561	103362
10/2/18 1:00 PM	0	49	561	103362
10/2/18 1:30 PM	0	49	561	103362
10/2/18 2:00 PM	0	49	561	103362
10/2/18 2:30 PM	0	49	560	103362
10/2/18 3:00 PM	0	49	561	103362
10/2/18 3:30 PM	0	49	561	103362
10/2/18 4:00 PM	0	49	561	103362
10/2/18 4:30 PM	0	49	561	103362
10/2/18 5:00 PM	0	49	561	103362
10/2/18 5:30 PM	0	49	561	103362
10/2/18 6:00 PM	0	49	561	103362
10/2/18 6:30 PM	0	49	561	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/2/18 7:00 PM	0	49	561	103362
10/2/18 7:30 PM	0	49	561	103362
10/2/18 8:00 PM	0	49	561	103362
10/2/18 8:30 PM	0	49	561	103362
10/2/18 9:00 PM	0	49	561	103362
10/2/18 9:30 PM	0	49	561	103362
10/2/18 10:00 PM	0	49	561	103362
10/2/18 10:30 PM	0	49	561	103362
10/2/18 11:00 PM	0	49	561	103362
10/2/18 11:30 PM	0	49	561	103362
10/3/18 12:00 AM	0	49	561	103362
10/3/18 12:30 AM	0	49	561	103362
10/3/18 1:00 AM	0	49	561	103362
10/3/18 1:30 AM	0	49	561	103362
10/3/18 2:00 AM	0	49	561	103362
10/3/18 2:30 AM	0	49	561	103362
10/3/18 3:00 AM	0	49	561	103362
10/3/18 3:30 AM	0	49	561	103362
10/3/18 4:00 AM	0	49	561	103362
10/3/18 4:30 AM	0	49	561	103362
10/3/18 5:00 AM	0	49	561	103362
10/3/18 5:30 AM	0	49	561	103362
10/3/18 6:00 AM	0	49	561	103362
10/3/18 6:30 AM	0	49	561	103362
10/3/18 7:00 AM	0	49	561	103362
10/3/18 7:30 AM	0	49	560	103362
10/3/18 8:00 AM	0	49	561	103362
10/3/18 8:30 AM	0	49	561	103362
10/3/18 9:00 AM	0	49	561	103362
10/3/18 9:30 AM	0	49	561	103362
10/3/18 10:00 AM	0	49	561	103362
10/3/18 10:30 AM	0	49	560	103362
10/3/18 11:00 AM	0	49	560	103362
10/3/18 11:30 AM	0	49	561	103362
10/3/18 12:00 PM	0	49	560	103362
10/3/18 12:30 PM	0	49	560	103362
10/3/18 1:00 PM	0	49	560	103362
10/3/18 1:30 PM	0	49	560	103362
10/3/18 2:00 PM	0	49	560	103362
10/3/18 2:30 PM	0	50	560	103362
10/3/18 3:00 PM	0	50	560	103362
10/3/18 3:30 PM	0	50	560	103362
10/3/18 4:00 PM	0	50	560	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/3/18 4:30 PM	0	50	560	103362
10/3/18 5:00 PM	0	50	560	103362
10/3/18 5:30 PM	0	50	560	103362
10/3/18 6:00 PM	0	50	560	103362
10/3/18 6:30 PM	0	50	560	103362
10/3/18 7:00 PM	0	50	560	103362
10/3/18 7:30 PM	0	50	560	103362
10/3/18 8:00 PM	0	50	560	103362
10/3/18 8:30 PM	0	50	560	103362
10/3/18 9:00 PM	0	50	560	103362
10/3/18 9:30 PM	0	50	560	103362
10/3/18 10:00 PM	0	50	560	103362
10/3/18 10:30 PM	0	50	560	103362
10/3/18 11:00 PM	0	50	560	103362
10/3/18 11:30 PM	0	50	560	103362
10/4/18 12:00 AM	0	50	560	103362
10/4/18 12:30 AM	0	50	560	103362
10/4/18 1:00 AM	0	50	560	103362
10/4/18 1:30 AM	0	50	560	103362
10/4/18 2:00 AM	0	50	560	103362
10/4/18 2:30 AM	0	50	560	103362
10/4/18 3:00 AM	0	49	560	103362
10/4/18 3:30 AM	0	49	560	103362
10/4/18 4:00 AM	0	49	560	103362
10/4/18 4:30 AM	0	49	560	103362
10/4/18 5:00 AM	0	49	560	103362
10/4/18 5:30 AM	0	49	560	103362
10/4/18 6:00 AM	0	49	560	103362
10/4/18 6:30 AM	0	49	560	103362
10/4/18 7:00 AM	0	49	560	103362
10/4/18 7:30 AM	0	49	560	103362
10/4/18 8:00 AM	0	49	560	103362
10/4/18 8:30 AM	0	49	560	103362
10/4/18 9:00 AM	0	49	560	103362
10/4/18 9:30 AM	0	49	560	103362
10/4/18 10:00 AM	0	50	560	103362
10/4/18 10:30 AM	0	50	560	103362
10/4/18 11:00 AM	0	50	560	103362
10/4/18 11:30 AM	0	50	560	103362
10/4/18 12:00 PM	0	50	560	103362
10/4/18 12:30 PM	0	50	560	103362
10/4/18 1:00 PM	0	50	559	103362
10/4/18 1:30 PM	0	50	559	103362

### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/4/18 2:00 PM	0	50	559	103362
10/4/18 2:30 PM	0	50	560	103362
10/4/18 3:00 PM	0	50	559	103362
10/4/18 3:30 PM	0	50	559	103362
10/4/18 4:00 PM	0	50	559	103362
10/4/18 4:30 PM	0	50	560	103362
10/4/18 5:00 PM	0	50	560	103362
10/4/18 5:30 PM	0	50	559	103362
10/4/18 6:00 PM	0	50	559	103362
10/4/18 6:30 PM	0	50	559	103362
10/4/18 7:00 PM	0	50	559	103362
10/4/18 7:30 PM	0	50	559	103362
10/4/18 8:00 PM	0	50	559	103362
10/4/18 8:30 PM	0	50	559	103362
10/4/18 9:00 PM	0	50	559	103362
10/4/18 9:30 PM	0	50	559	103362
10/4/18 10:00 PM	0	50	559	103362
10/4/18 10:30 PM	0	50	559	103362
10/4/18 11:00 PM	0	50	559	103362
10/4/18 11:30 PM	0	50	559	103362
10/5/18 12:00 AM	0	50	559	103362
10/5/18 12:30 AM	0	50	559	103362
10/5/18 1:00 AM	0	50	559	103362
10/5/18 1:30 AM	0	50	559	103362
10/5/18 2:00 AM	0	50	559	103362
10/5/18 2:30 AM	0	50	559	103362
10/5/18 3:00 AM	0	50	559	103362
10/5/18 3:30 AM	0	50	559	103362
10/5/18 4:00 AM	0	50	559	103362
10/5/18 4:30 AM	0	50	559	103362
10/5/18 5:00 AM	0	50	559	103362
10/5/18 5:30 AM	0	49	559	103362
10/5/18 6:00 AM	0	49	559	103362
10/5/18 6:30 AM	0	49	559	103362
10/5/18 7:00 AM	0	49	559	103362
10/5/18 7:30 AM	0	49	559	103362
10/5/18 8:00 AM	0	49	559	103362
10/5/18 8:30 AM	0	49	559	103362
10/5/18 9:00 AM	0	49	559	103362
10/5/18 9:30 AM	0	49	559	103362
10/5/18 10:00 AM	0	49	559	103362
10/5/18 10:30 AM	0	49	559	103362
10/5/18 11:00 AM	0	50	559	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/5/18 11:30 AM	0	50	559	103362
10/5/18 12:00 PM	0	50	559	103362
10/5/18 12:30 PM	0	50	559	103362
10/5/18 1:00 PM	0	50	559	103362
10/5/18 1:30 PM	0	50	559	103362
10/5/18 2:00 PM	0	50	558	103362
10/5/18 2:30 PM	0	50	558	103362
10/5/18 3:00 PM	0	50	558	103362
10/5/18 3:30 PM	0	50	558	103362
10/5/18 4:00 PM	0	50	558	103362
10/5/18 4:30 PM	0	50	559	103362
10/5/18 5:00 PM	0	50	559	103362
10/5/18 5:30 PM	0	50	559	103362
10/5/18 6:00 PM	0	50	558	103362
10/5/18 6:30 PM	0	50	558	103362
10/5/18 7:00 PM	0	50	558	103362
10/5/18 7:30 PM	0	50	558	103362
10/5/18 8:00 PM	0	50	559	103362
10/5/18 8:30 PM	0	50	559	103362
10/5/18 9:00 PM	0	50	559	103362
10/5/18 9:30 PM	0	50	559	103362
10/5/18 10:00 PM	0	50	559	103362
10/5/18 10:30 PM	0	50	558	103362
10/5/18 11:00 PM	0	50	558	103362
10/5/18 11:30 PM	0	50	558	103362
10/6/18 12:00 AM	0	50	558	103362
10/6/18 12:30 AM	0	50	558	103362
10/6/18 1:00 AM	0	50	558	103362
10/6/18 1:30 AM	0	50	558	103362
10/6/18 2:00 AM	0	50	558	103362
10/6/18 2:30 AM	0	50	558	103362
10/6/18 3:00 AM	0	50	558	103362
10/6/18 3:30 AM	0	50	558	103362
10/6/18 4:00 AM	0	50	558	103362
10/6/18 4:30 AM	0	50	558	103362
10/6/18 5:00 AM	0	50	558	103362
10/6/18 5:30 AM	0	50	558	103362
10/6/18 6:00 AM	0	50	558	103362
10/6/18 6:30 AM	0	50	558	103362
10/6/18 7:00 AM	0	50	558	103362
10/6/18 7:30 AM	0	50	558	103362
10/6/18 8:00 AM	0	50	558	103362
10/6/18 8:30 AM	0	50	558	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/6/18 9:00 AM	0	50	559	103362
10/6/18 9:30 AM	0	50	558	103362
10/6/18 10:00 AM	0	50	558	103362
10/6/18 10:30 AM	0	50	558	103362
10/6/18 11:00 AM	0	50	558	103362
10/6/18 11:30 AM	0	50	558	103362
10/6/18 12:00 PM	0	50	558	103362
10/6/18 12:30 PM	0	50	558	103362
10/6/18 1:00 PM	0	50	558	103362
10/6/18 1:30 PM	0	50	558	103362
10/6/18 2:00 PM	0	50	558	103362
10/6/18 2:30 PM	0	50	558	103362
10/6/18 3:00 PM	0	50	558	103362
10/6/18 3:30 PM	0	50	558	103362
10/6/18 4:00 PM	0	50	558	103362
10/6/18 4:30 PM	0	50	558	103362
10/6/18 5:00 PM	0	50	558	103362
10/6/18 5:30 PM	0	50	558	103362
10/6/18 6:00 PM	0	50	558	103362
10/6/18 6:30 PM	0	50	558	103362
10/6/18 7:00 PM	0	50	558	103362
10/6/18 7:30 PM	0	50	558	103362
10/6/18 8:00 PM	0	50	558	103362
10/6/18 8:30 PM	0	50	558	103362
10/6/18 9:00 PM	0	50	558	103362
10/6/18 9:30 PM	0	50	558	103362
10/6/18 10:00 PM	0	50	558	103362
10/6/18 10:30 PM	0	50	558	103362
10/6/18 11:00 PM	0	50	558	103362
10/6/18 11:30 PM	0	50	558	103362
10/7/18 12:00 AM	0	50	558	103362
10/7/18 12:30 AM	0	50	558	103362
10/7/18 1:00 AM	0	50	558	103362
10/7/18 1:30 AM	0	50	558	103362
10/7/18 2:00 AM	0	50	558	103362
10/7/18 2:30 AM	0	50	558	103362
10/7/18 3:00 AM	0	50	558	103362
10/7/18 3:30 AM	0	50	558	103362
10/7/18 4:00 AM	0	50	558	103362
10/7/18 4:30 AM	0	50	558	103362
10/7/18 5:00 AM	0	50	558	103362
10/7/18 5:30 AM	0	50	558	103362
10/7/18 6:00 AM	0	50	558	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/7/18 6:30 AM	0	50	558	103362
10/7/18 7:00 AM	0	50	558	103362
10/7/18 7:30 AM	0	50	558	103362
10/7/18 8:00 AM	0	50	558	103362
10/7/18 8:30 AM	0	50	558	103362
10/7/18 9:00 AM	0	50	558	103362
10/7/18 9:30 AM	0	50	558	103362
10/7/18 10:00 AM	0	50	558	103362
10/7/18 10:30 AM	0	50	558	103362
10/7/18 11:00 AM	0	50	558	103362
10/7/18 11:30 AM	0	50	557	103362
10/7/18 12:00 PM	0	50	557	103362
10/7/18 12:30 PM	0	50	557	103362
10/7/18 1:00 PM	0	50	557	103362
10/7/18 1:30 PM	0	50	557	103362
10/7/18 2:00 PM	0	50	557	103362
10/7/18 2:30 PM	0	50	557	103362
10/7/18 3:00 PM	0	50	557	103362
10/7/18 3:30 PM	0	50	557	103362
10/7/18 4:00 PM	0	50	557	103362
10/7/18 4:30 PM	0	50	557	103362
10/7/18 5:00 PM	0	50	557	103362
10/7/18 5:30 PM	0	50	557	103362
10/7/18 6:00 PM	0	50	557	103362
10/7/18 6:30 PM	0	50	557	103362
10/7/18 7:00 PM	0	50	557	103362
10/7/18 7:30 PM	0	50	557	103362
10/7/18 8:00 PM	0	50	557	103362
10/7/18 8:30 PM	0	50	557	103362
10/7/18 9:00 PM	0	50	557	103362
10/7/18 9:30 PM	0	50	557	103362
10/7/18 10:00 PM	0	50	557	103362
10/7/18 10:30 PM	0	50	557	103362
10/7/18 11:00 PM	0	50	557	103362
10/7/18 11:30 PM	0	50	557	103362
10/8/18 12:00 AM	0	50	557	103362
10/8/18 12:30 AM	0	50	557	103362
10/8/18 1:00 AM	0	50	557	103362
10/8/18 1:30 AM	0	50	557	103362
10/8/18 2:00 AM	0	50	557	103362
10/8/18 2:30 AM	0	50	557	103362
10/8/18 3:00 AM	0	50	557	103362
10/8/18 3:30 AM	0	50	557	103362



### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
	<u>Flowrate</u> <u>(gpm)</u>	<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/8/18 4:00 AM	0	50	557	103362
10/8/18 4:30 AM	0	50	557	103362
10/8/18 5:00 AM	0	50	557	103362
10/8/18 5:30 AM	0	50	557	103362
10/8/18 6:00 AM	0	50	557	103362
10/8/18 6:30 AM	0	50	557	103362
10/8/18 7:00 AM	0	50	557	103362
10/8/18 7:30 AM	0	50	557	103362
10/8/18 8:00 AM	0	50	557	103362
10/8/18 8:30 AM	0	50	557	103362
10/8/18 9:00 AM	0	50	557	103362
10/8/18 9:30 AM	0	50	557	103362
10/8/18 10:00 AM	0	50	557	103362
10/8/18 10:30 AM	0	50	557	103362
10/8/18 11:00 AM	0	50	557	103362
10/8/18 11:30 AM	0	50	557	103362
10/8/18 12:00 PM	0	50	556	103362
10/8/18 12:30 PM	0	50	557	103362
10/8/18 1:00 PM	0	50	557	103362
10/8/18 1:30 PM	0	50	557	103362
10/8/18 2:00 PM	0	50	557	103362
10/8/18 2:30 PM	0	50	556	103362
10/8/18 3:00 PM	0	50	556	103362
10/8/18 3:30 PM	0	50	556	103362
10/8/18 4:00 PM	0	50	556	103362
10/8/18 4:30 PM	0	50	556	103362
10/8/18 5:00 PM	0	50	556	103362
10/8/18 5:30 PM	0	50	556	103362
10/8/18 6:00 PM	0	50	556	103362
10/8/18 6:30 PM	0	50	556	103362
10/8/18 7:00 PM	0	50	556	103362
10/8/18 7:30 PM	0	50	556	103362
10/8/18 8:00 PM	0	50	556	103362
10/8/18 8:30 PM	0	50	556	103362
10/8/18 9:00 PM	0	50	556	103362
10/8/18 9:30 PM	0	50	556	103362
10/8/18 10:00 PM	0	50	556	103362
10/8/18 10:30 PM	0	50	556	103362
10/8/18 11:00 PM	0	50	556	103362
10/8/18 11:30 PM	0	50	556	103362
10/9/18 12:00 AM	0	50	556	103362
10/9/18 12:30 AM	0	50	556	103362
10/9/18 1:00 AM	0	50	556	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/9/18 1:30 AM	0	50	556	103362
10/9/18 2:00 AM	0	50	556	103362
10/9/18 2:30 AM	0	50	556	103362
10/9/18 3:00 AM	0	50	556	103362
10/9/18 3:30 AM	0	50	556	103362
10/9/18 4:00 AM	0	50	556	103362
10/9/18 4:30 AM	0	50	556	103362
10/9/18 5:00 AM	0	50	556	103362
10/9/18 5:30 AM	0	50	556	103362
10/9/18 6:00 AM	0	50	556	103362
10/9/18 6:30 AM	0	50	556	103362
10/9/18 7:00 AM	0	50	556	103362
10/9/18 7:30 AM	0	50	556	103362
10/9/18 8:00 AM	0	50	556	103362
10/9/18 8:30 AM	0	50	556	103362
10/9/18 9:00 AM	0	50	556	103362
10/9/18 9:30 AM	0	50	556	103362
10/9/18 10:00 AM	0	50	556	103362
10/9/18 10:30 AM	0	50	556	103362
10/9/18 11:00 AM	0	50	556	103362
10/9/18 11:30 AM	0	50	556	103362
10/9/18 12:00 PM	0	50	556	103362
10/9/18 12:30 PM	0	50	556	103362
10/9/18 1:00 PM	0	50	556	103362
10/9/18 1:30 PM	0	50	555	103362
10/9/18 2:00 PM	0	50	556	103362
10/9/18 2:30 PM	0	50	555	103362
10/9/18 3:00 PM	0	50	555	103362
10/9/18 3:30 PM	0	50	555	103362
10/9/18 4:00 PM	0	50	555	103362
10/9/18 4:30 PM	0	50	556	103362
10/9/18 5:00 PM	0	50	555	103362
10/9/18 5:30 PM	0	50	556	103362
10/9/18 6:00 PM	0	50	556	103362
10/9/18 6:30 PM	0	50	555	103362
10/9/18 7:00 PM	0	50	555	103362
10/9/18 7:30 PM	0	50	555	103362
10/9/18 8:00 PM	0	50	555	103362
10/9/18 8:30 PM	0	50	556	103362
10/9/18 9:00 PM	0	50	555	103362
10/9/18 9:30 PM	0	50	555	103362
10/9/18 10:00 PM	0	50	555	103362
10/9/18 10:30 PM	0	50	555	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/9/18 11:00 PM	0	50	555	103362
10/9/18 11:30 PM	0	50	555	103362
10/10/18 12:00 AM	0	50	555	103362
10/10/18 12:30 AM	0	50	555	103362
10/10/18 1:00 AM	0	50	555	103362
10/10/18 1:30 AM	0	50	555	103362
10/10/18 2:00 AM	0	50	555	103362
10/10/18 2:30 AM	0	50	555	103362
10/10/18 3:00 AM	0	50	555	103362
10/10/18 3:30 AM	0	50	555	103362
10/10/18 4:00 AM	0	50	555	103362
10/10/18 4:30 AM	0	50	555	103362
10/10/18 5:00 AM	0	50	555	103362
10/10/18 5:30 AM	0	50	555	103362
10/10/18 6:00 AM	0	50	555	103362
10/10/18 6:30 AM	0	50	555	103362
10/10/18 7:00 AM	0	50	555	103362
10/10/18 7:30 AM	0	50	555	103362
10/10/18 8:00 AM	0	50	555	103362
10/10/18 8:30 AM	0	50	555	103362
10/10/18 9:00 AM	0	50	555	103362
10/10/18 9:30 AM	0	50	555	103362
10/10/18 10:00 AM	0	50	555	103362
10/10/18 10:30 AM	0	50	555	103362
10/10/18 11:00 AM	0	50	555	103362
10/10/18 11:30 AM	0	50	555	103362
10/10/18 12:00 PM	0	50	555	103362
10/10/18 12:30 PM	0	50	555	103362
10/10/18 1:00 PM	0	50	555	103362
10/10/18 1:30 PM	0	50	555	103362
10/10/18 2:00 PM	0	50	555	103362
10/10/18 2:30 PM	0	50	555	103362
10/10/18 3:00 PM	0	50	555	103362
10/10/18 3:30 PM	0	50	555	103362
10/10/18 4:00 PM	0	50	555	103362
10/10/18 4:30 PM	0	50	555	103362
10/10/18 5:00 PM	0	50	555	103362
10/10/18 5:30 PM	0	50	555	103362
10/10/18 6:00 PM	0	50	555	103362
10/10/18 6:30 PM	0	50	555	103362
10/10/18 7:00 PM	0	50	555	103362
10/10/18 7:30 PM	0	50	555	103362
10/10/18 8:00 PM	0	50	555	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/10/18 8:30 PM	0	50	555	103362
10/10/18 9:00 PM	0	50	555	103362
10/10/18 9:30 PM	0	50	555	103362
10/10/18 10:00 PM	0	50	555	103362
10/10/18 10:30 PM	0	50	555	103362
10/10/18 11:00 PM	0	50	555	103362
10/10/18 11:30 PM	0	50	555	103362
10/11/18 12:00 AM	0	50	555	103362
10/11/18 12:30 AM	0	50	555	103362
10/11/18 1:00 AM	0	50	555	103362
10/11/18 1:30 AM	0	50	554	103362
10/11/18 2:00 AM	0	50	555	103362
10/11/18 2:30 AM	0	50	555	103362
10/11/18 3:00 AM	0	50	554	103362
10/11/18 3:30 AM	0	50	554	103362
10/11/18 4:00 AM	0	50	554	103362
10/11/18 4:30 AM	0	50	554	103362
10/11/18 5:00 AM	0	50	554	103362
10/11/18 5:30 AM	0	50	554	103362
10/11/18 6:00 AM	0	50	554	103362
10/11/18 6:30 AM	0	50	554	103362
10/11/18 7:00 AM	0	50	554	103362
10/11/18 7:30 AM	0	50	554	103362
10/11/18 8:00 AM	0	50	554	103362
10/11/18 8:30 AM	0	50	554	103362
10/11/18 9:00 AM	0	50	554	103362
10/11/18 9:30 AM	0	50	555	103362
10/11/18 10:00 AM	0	50	555	103362
10/11/18 10:30 AM	0	50	554	103362
10/11/18 11:00 AM	0	50	554	103362
10/11/18 11:30 AM	0	50	554	103362
10/11/18 12:00 PM	0	50	554	103362
10/11/18 12:30 PM	0	50	554	103362
10/11/18 1:00 PM	0	50	554	103362
10/11/18 1:30 PM	0	50	554	103362
10/11/18 2:00 PM	0	50	554	103362
10/11/18 2:30 PM	0	50	554	103362
10/11/18 3:00 PM	0	50	555	103362
10/11/18 3:30 PM	0	50	554	103362
10/11/18 4:00 PM	0	50	554	103362
10/11/18 4:30 PM	0	50	554	103362
10/11/18 5:00 PM	0	50	554	103362
10/11/18 5:30 PM	0	50	554	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/11/18 6:00 PM	0	50	554	103362
10/11/18 6:30 PM	0	50	554	103362
10/11/18 7:00 PM	0	50	554	103362
10/11/18 7:30 PM	0	50	554	103362
10/11/18 8:00 PM	0	50	554	103362
10/11/18 8:30 PM	0	50	554	103362
10/11/18 9:00 PM	0	50	554	103362
10/11/18 9:30 PM	0	50	554	103362
10/11/18 10:00 PM	0	50	554	103362
10/11/18 10:30 PM	0	50	554	103362
10/11/18 11:00 PM	0	50	554	103362
10/11/18 11:30 PM	0	50	554	103362
10/12/18 12:00 AM	0	50	554	103362
10/12/18 12:30 AM	0	50	554	103362
10/12/18 1:00 AM	0	50	554	103362
10/12/18 1:30 AM	0	50	554	103362
10/12/18 2:00 AM	0	50	554	103362
10/12/18 2:30 AM	0	50	554	103362
10/12/18 3:00 AM	0	50	554	103362
10/12/18 3:30 AM	0	50	554	103362
10/12/18 4:00 AM	0	50	554	103362
10/12/18 4:30 AM	0	50	554	103362
10/12/18 5:00 AM	0	50	554	103362
10/12/18 5:30 AM	0	50	554	103362
10/12/18 6:00 AM	0	50	554	103362
10/12/18 6:30 AM	0	50	554	103362
10/12/18 7:00 AM	0	50	554	103362
10/12/18 7:30 AM	0	50	554	103362
10/12/18 8:00 AM	0	50	554	103362
10/12/18 8:30 AM	0	50	554	103362
10/12/18 9:00 AM	0	50	554	103362
10/12/18 9:30 AM	0	50	554	103362
10/12/18 10:00 AM	0	50	554	103362
10/12/18 10:30 AM	0	50	554	103362
10/12/18 11:00 AM	0	50	554	103362
10/12/18 11:30 AM	0	50	554	103362
10/12/18 12:00 PM	0	50	554	103362
10/12/18 12:30 PM	0	50	554	103362
10/12/18 1:00 PM	0	50	554	103362
10/12/18 1:30 PM	0	50	553	103362
10/12/18 2:00 PM	0	50	554	103362
10/12/18 2:30 PM	0	50	553	103362
10/12/18 3:00 PM	0	51	553	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(psi)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/12/18 3:30 PM	0	51	553	103362
10/12/18 4:00 PM	0	51	553	103362
10/12/18 4:30 PM	0	51	553	103362
10/12/18 5:00 PM	0	51	553	103362
10/12/18 5:30 PM	0	51	553	103362
10/12/18 6:00 PM	0	51	553	103362
10/12/18 6:30 PM	0	51	553	103362
10/12/18 7:00 PM	0	51	553	103362
10/12/18 7:30 PM	0	51	553	103362
10/12/18 8:00 PM	0	51	553	103362
10/12/18 8:30 PM	0	51	553	103362
10/12/18 9:00 PM	0	51	553	103362
10/12/18 9:30 PM	0	51	553	103362
10/12/18 10:00 PM	0	51	553	103362
10/12/18 10:30 PM	0	51	553	103362
10/12/18 11:00 PM	0	51	553	103362
10/12/18 11:30 PM	0	51	553	103362
10/13/18 12:00 AM	0	51	553	103362
10/13/18 12:30 AM	0	51	553	103362
10/13/18 1:00 AM	0	51	553	103362
10/13/18 1:30 AM	0	51	553	103362
10/13/18 2:00 AM	0	50	553	103362
10/13/18 2:30 AM	0	50	553	103362
10/13/18 3:00 AM	0	50	553	103362
10/13/18 3:30 AM	0	50	553	103362
10/13/18 4:00 AM	0	50	553	103362
10/13/18 4:30 AM	0	50	553	103362
10/13/18 5:00 AM	0	50	553	103362
10/13/18 5:30 AM	0	50	553	103362
10/13/18 6:00 AM	0	50	553	103362
10/13/18 6:30 AM	0	50	553	103362
10/13/18 7:00 AM	0	50	553	103362
10/13/18 7:30 AM	0	50	553	103362
10/13/18 8:00 AM	0	50	553	103362
10/13/18 8:30 AM	0	50	553	103362
10/13/18 9:00 AM	0	50	553	103362
10/13/18 9:30 AM	0	50	553	103362
10/13/18 10:00 AM	0	50	553	103362
10/13/18 10:30 AM	0	50	553	103362
10/13/18 11:00 AM	0	50	553	103362
10/13/18 11:30 AM	0	50	553	103362
10/13/18 12:00 PM	0	51	553	103362
10/13/18 12:30 PM	0	51	553	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/13/18 1:00 PM	0	51	553	103362
10/13/18 1:30 PM	0	51	553	103362
10/13/18 2:00 PM	0	51	553	103362
10/13/18 2:30 PM	0	51	553	103362
10/13/18 3:00 PM	0	51	553	103362
10/13/18 3:30 PM	0	51	553	103362
10/13/18 4:00 PM	0	51	553	103362
10/13/18 4:30 PM	0	51	552	103362
10/13/18 5:00 PM	0	51	552	103362
10/13/18 5:30 PM	0	51	552	103362
10/13/18 6:00 PM	0	51	553	103362
10/13/18 6:30 PM	0	51	552	103362
10/13/18 7:00 PM	0	51	553	103362
10/13/18 7:30 PM	0	51	553	103362
10/13/18 8:00 PM	0	51	553	103362
10/13/18 8:30 PM	0	51	553	103362
10/13/18 9:00 PM	0	51	553	103362
10/13/18 9:30 PM	0	51	553	103362
10/13/18 10:00 PM	0	51	553	103362
10/13/18 10:30 PM	0	51	553	103362
10/13/18 11:00 PM	0	51	553	103362
10/13/18 11:30 PM	0	51	553	103362
10/14/18 12:00 AM	0	51	553	103362
10/14/18 12:30 AM	0	51	553	103362
10/14/18 1:00 AM	0	51	553	103362
10/14/18 1:30 AM	0	51	553	103362
10/14/18 2:00 AM	0	51	553	103362
10/14/18 2:30 AM	0	51	553	103362
10/14/18 3:00 AM	0	51	553	103362
10/14/18 3:30 AM	0	51	552	103362
10/14/18 4:00 AM	0	51	552	103362
10/14/18 4:30 AM	0	51	552	103362
10/14/18 5:00 AM	0	51	552	103362
10/14/18 5:30 AM	0	51	552	103362
10/14/18 6:00 AM	0	51	552	103362
10/14/18 6:30 AM	0	51	552	103362
10/14/18 7:00 AM	0	51	552	103362
10/14/18 7:30 AM	0	51	552	103362
10/14/18 8:00 AM	0	51	552	103362
10/14/18 8:30 AM	0	51	552	103362
10/14/18 9:00 AM	0	51	552	103362
10/14/18 9:30 AM	0	51	552	103362
10/14/18 10:00 AM	0	51	553	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> (gpm)	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> (bbls)
		<u>Pressure</u> (psi)	<u>Pressure</u> (psi)	
10/14/18 10:30 AM	0	51	553	103362
10/14/18 11:00 AM	0	51	552	103362
10/14/18 11:30 AM	0	51	552	103362
10/14/18 12:00 PM	0	51	552	103362
10/14/18 12:30 PM	0	51	552	103362
10/14/18 1:00 PM	0	51	552	103362
10/14/18 1:30 PM	0	51	552	103362
10/14/18 2:00 PM	0	51	552	103362
10/14/18 2:30 PM	0	51	552	103362
10/14/18 3:00 PM	0	51	552	103362
10/14/18 3:30 PM	0	51	552	103362
10/14/18 4:00 PM	0	51	552	103362
10/14/18 4:30 PM	0	51	552	103362
10/14/18 5:00 PM	0	51	552	103362
10/14/18 5:30 PM	0	51	552	103362
10/14/18 6:00 PM	0	51	552	103362
10/14/18 6:30 PM	0	51	552	103362
10/14/18 7:00 PM	0	51	552	103362
10/14/18 7:30 PM	0	51	552	103362
10/14/18 8:00 PM	0	51	552	103362
10/14/18 8:30 PM	0	51	552	103362
10/14/18 9:00 PM	0	51	552	103362
10/14/18 9:30 PM	0	51	552	103362
10/14/18 10:00 PM	0	51	552	103362
10/14/18 10:30 PM	0	51	552	103362
10/14/18 11:00 PM	0	51	552	103362
10/14/18 11:30 PM	0	51	552	103362
10/15/18 12:00 AM	0	51	552	103362
10/15/18 12:30 AM	0	51	552	103362
10/15/18 1:00 AM	0	51	552	103362
10/15/18 1:30 AM	0	51	552	103362
10/15/18 2:00 AM	0	51	552	103362
10/15/18 2:30 AM	0	51	552	103362
10/15/18 3:00 AM	0	51	552	103362
10/15/18 3:30 AM	0	51	552	103362
10/15/18 4:00 AM	0	51	552	103362
10/15/18 4:30 AM	0	51	552	103362
10/15/18 5:00 AM	0	51	552	103362
10/15/18 5:30 AM	0	51	552	103362
10/15/18 6:00 AM	0	51	551	103362
10/15/18 6:30 AM	0	51	551	103362
10/15/18 7:00 AM	0	51	551	103362
10/15/18 7:30 AM	0	51	551	103362



### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/15/18 8:00 AM	0	51	551	103362
10/15/18 8:30 AM	0	51	552	103362
10/15/18 9:00 AM	0	51	551	103362
10/15/18 9:30 AM	0	51	551	103362
10/15/18 10:00 AM	0	51	552	103362
10/15/18 10:30 AM	0	51	552	103362
10/15/18 11:00 AM	0	51	552	103362
10/15/18 11:30 AM	0	51	552	103362
10/15/18 12:00 PM	0	51	551	103362
10/15/18 12:30 PM	0	51	552	103362
10/15/18 1:00 PM	0	51	551	103362
10/15/18 1:30 PM	0	51	551	103362
10/15/18 2:00 PM	0	51	551	103362
10/15/18 2:30 PM	0	51	551	103362
10/15/18 3:00 PM	0	51	551	103362
10/15/18 3:30 PM	0	51	551	103362
10/15/18 4:00 PM	0	51	551	103362
10/15/18 4:30 PM	0	51	551	103362
10/15/18 5:00 PM	0	51	551	103362
10/15/18 5:30 PM	0	51	551	103362
10/15/18 6:00 PM	0	51	551	103362
10/15/18 6:30 PM	0	51	551	103362
10/15/18 7:00 PM	0	51	551	103362
10/15/18 7:30 PM	0	51	551	103362
10/15/18 8:00 PM	0	51	551	103362
10/15/18 8:30 PM	0	51	551	103362
10/15/18 9:00 PM	0	51	551	103362
10/15/18 9:30 PM	0	51	551	103362
10/15/18 10:00 PM	0	51	551	103362
10/15/18 10:30 PM	0	51	551	103362
10/15/18 11:00 PM	0	51	551	103362
10/15/18 11:30 PM	0	51	551	103362
10/16/18 12:00 AM	0	51	551	103362
10/16/18 12:30 AM	0	51	551	103362
10/16/18 1:00 AM	0	51	551	103362
10/16/18 1:30 AM	0	51	551	103362
10/16/18 2:00 AM	0	51	551	103362
10/16/18 2:30 AM	0	51	551	103362
10/16/18 3:00 AM	0	51	551	103362
10/16/18 3:30 AM	0	51	551	103362
10/16/18 4:00 AM	0	51	551	103362
10/16/18 4:30 AM	0	51	551	103362
10/16/18 5:00 AM	0	51	551	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/16/18 5:30 AM	0	51	551	103362
10/16/18 6:00 AM	0	51	551	103362
10/16/18 6:30 AM	0	51	551	103362
10/16/18 7:00 AM	0	51	551	103362
10/16/18 7:30 AM	0	51	551	103362
10/16/18 8:00 AM	0	51	551	103362
10/16/18 8:30 AM	0	51	551	103362
10/16/18 9:00 AM	0	51	551	103362
10/16/18 9:30 AM	0	50	551	103362
10/16/18 10:00 AM	0	50	551	103362
10/16/18 10:30 AM	0	50	551	103362
10/16/18 11:00 AM	0	50	551	103362
10/16/18 11:30 AM	0	50	551	103362
10/16/18 12:00 PM	0	51	551	103362
10/16/18 12:30 PM	0	51	551	103362
10/16/18 1:00 PM	0	51	551	103362
10/16/18 1:30 PM	0	51	551	103362
10/16/18 2:00 PM	0	51	551	103362
10/16/18 2:30 PM	0	51	550	103362
10/16/18 3:00 PM	0	51	550	103362
10/16/18 3:30 PM	0	51	551	103362
10/16/18 4:00 PM	0	51	550	103362
10/16/18 4:30 PM	0	51	551	103362
10/16/18 5:00 PM	0	51	550	103362
10/16/18 5:30 PM	0	51	550	103362
10/16/18 6:00 PM	0	51	550	103362
10/16/18 6:30 PM	0	51	550	103362
10/16/18 7:00 PM	0	51	551	103362
10/16/18 7:30 PM	0	51	551	103362
10/16/18 8:00 PM	0	51	550	103362
10/16/18 8:30 PM	0	51	550	103362
10/16/18 9:00 PM	0	51	551	103362
10/16/18 9:30 PM	0	51	550	103362
10/16/18 10:00 PM	0	51	550	103362
10/16/18 10:30 PM	0	51	550	103362
10/16/18 11:00 PM	0	51	550	103362
10/16/18 11:30 PM	0	51	550	103362
10/17/18 12:00 AM	0	51	550	103362
10/17/18 12:30 AM	0	51	550	103362
10/17/18 1:00 AM	0	51	550	103362
10/17/18 1:30 AM	0	51	550	103362
10/17/18 2:00 AM	0	51	550	103362
10/17/18 2:30 AM	0	51	550	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/17/18 3:00 AM	0	51	550	103362
10/17/18 3:30 AM	0	51	550	103362
10/17/18 4:00 AM	0	51	550	103362
10/17/18 4:30 AM	0	51	550	103362
10/17/18 5:00 AM	0	51	550	103362
10/17/18 5:30 AM	0	51	550	103362
10/17/18 6:00 AM	0	51	550	103362
10/17/18 6:30 AM	0	51	550	103362
10/17/18 7:00 AM	0	51	550	103362
10/17/18 7:30 AM	0	51	550	103362
10/17/18 8:00 AM	0	51	550	103362
10/17/18 8:30 AM	0	51	550	103362
10/17/18 9:00 AM	0	51	550	103362
10/17/18 9:30 AM	0	51	550	103362
10/17/18 10:00 AM	0	51	550	103362
10/17/18 10:30 AM	0	51	550	103362
10/17/18 11:00 AM	0	51	550	103362
10/17/18 11:30 AM	0	51	550	103362
10/17/18 12:00 PM	0	51	550	103362
10/17/18 12:30 PM	0	51	550	103362
10/17/18 1:00 PM	0	51	550	103362
10/17/18 1:30 PM	0	51	550	103362
10/17/18 2:00 PM	0	51	550	103362
10/17/18 2:30 PM	0	51	550	103362
10/17/18 3:00 PM	0	51	550	103362
10/17/18 3:30 PM	0	51	550	103362
10/17/18 4:00 PM	0	51	550	103362
10/17/18 4:30 PM	0	51	550	103362
10/17/18 5:00 PM	0	51	550	103362
10/17/18 5:30 PM	0	51	550	103362
10/17/18 6:00 PM	0	51	550	103362
10/17/18 6:30 PM	0	51	550	103362
10/17/18 7:00 PM	0	51	550	103362
10/17/18 7:30 PM	0	51	550	103362
10/17/18 8:00 PM	0	51	550	103362
10/17/18 8:30 PM	0	51	550	103362
10/17/18 9:00 PM	0	51	550	103362
10/17/18 9:30 PM	0	51	550	103362
10/17/18 10:00 PM	0	51	550	103362
10/17/18 10:30 PM	0	51	550	103362
10/17/18 11:00 PM	0	51	550	103362
10/17/18 11:30 PM	0	51	550	103362
10/18/18 12:00 AM	0	51	550	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/18/18 12:30 AM	0	51	550	103362
10/18/18 1:00 AM	0	51	550	103362
10/18/18 1:30 AM	0	51	550	103362
10/18/18 2:00 AM	0	51	550	103362
10/18/18 2:30 AM	0	51	550	103362
10/18/18 3:00 AM	0	51	550	103362
10/18/18 3:30 AM	0	51	550	103362
10/18/18 4:00 AM	0	51	550	103362
10/18/18 4:30 AM	0	51	550	103362
10/18/18 5:00 AM	0	51	550	103362
10/18/18 5:30 AM	0	51	550	103362
10/18/18 6:00 AM	0	51	550	103362
10/18/18 6:30 AM	0	51	550	103362
10/18/18 7:00 AM	0	51	550	103362
10/18/18 7:30 AM	0	51	549	103362
10/18/18 8:00 AM	0	51	549	103362
10/18/18 8:30 AM	0	51	549	103362
10/18/18 9:00 AM	0	51	550	103362
10/18/18 9:30 AM	0	51	550	103362
10/18/18 10:00 AM	0	51	550	103362
10/18/18 10:30 AM	0	51	549	103362
10/18/18 11:00 AM	0	51	549	103362
10/18/18 11:30 AM	0	51	549	103362
10/18/18 12:00 PM	0	51	550	103362
10/18/18 12:30 PM	0	51	549	103362
10/18/18 1:00 PM	0	51	550	103362
10/18/18 1:30 PM	0	51	549	103362
10/18/18 2:00 PM	0	51	549	103362
10/18/18 2:30 PM	0	51	549	103362
10/18/18 3:00 PM	0	51	549	103362
10/18/18 3:30 PM	0	51	549	103362
10/18/18 4:00 PM	0	51	549	103362
10/18/18 4:30 PM	0	51	549	103362
10/18/18 5:00 PM	0	51	549	103362
10/18/18 5:30 PM	0	51	549	103362
10/18/18 6:00 PM	0	51	549	103362
10/18/18 6:30 PM	0	51	549	103362
10/18/18 7:00 PM	0	51	549	103362
10/18/18 7:30 PM	0	51	549	103362
10/18/18 8:00 PM	0	51	549	103362
10/18/18 8:30 PM	0	51	549	103362
10/18/18 9:00 PM	0	51	549	103362
10/18/18 9:30 PM	0	51	549	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/18/18 10:00 PM	0	51	549	103362
10/18/18 10:30 PM	0	51	549	103362
10/18/18 11:00 PM	0	51	549	103362
10/18/18 11:30 PM	0	51	549	103362
10/19/18 12:00 AM	0	51	549	103362
10/19/18 12:30 AM	0	51	549	103362
10/19/18 1:00 AM	0	51	549	103362
10/19/18 1:30 AM	0	51	549	103362
10/19/18 2:00 AM	0	51	549	103362
10/19/18 2:30 AM	0	51	549	103362
10/19/18 3:00 AM	0	51	549	103362
10/19/18 3:30 AM	0	51	549	103362
10/19/18 4:00 AM	0	51	549	103362
10/19/18 4:30 AM	0	51	549	103362
10/19/18 5:00 AM	0	51	549	103362
10/19/18 5:30 AM	0	51	549	103362
10/19/18 6:00 AM	0	51	549	103362
10/19/18 6:30 AM	0	51	549	103362
10/19/18 7:00 AM	0	51	549	103362
10/19/18 7:30 AM	0	51	549	103362
10/19/18 8:00 AM	0	51	549	103362
10/19/18 8:30 AM	0	51	549	103362
10/19/18 9:00 AM	0	51	549	103362
10/19/18 9:30 AM	0	51	549	103362
10/19/18 10:00 AM	0	51	549	103362
10/19/18 10:30 AM	0	51	549	103362
10/19/18 11:00 AM	0	51	549	103362
10/19/18 11:30 AM	0	51	549	103362
10/19/18 12:00 PM	0	51	549	103362
10/19/18 12:30 PM	0	51	549	103362
10/19/18 1:00 PM	0	51	549	103362
10/19/18 1:30 PM	0	51	549	103362
10/19/18 2:00 PM	0	51	548	103362
10/19/18 2:30 PM	0	51	548	103362
10/19/18 3:00 PM	0	51	548	103362
10/19/18 3:30 PM	0	51	548	103362
10/19/18 4:00 PM	0	52	548	103362
10/19/18 4:30 PM	0	52	548	103362
10/19/18 5:00 PM	0	52	548	103362
10/19/18 5:30 PM	0	52	548	103362
10/19/18 6:00 PM	0	52	548	103362
10/19/18 6:30 PM	0	52	548	103362
10/19/18 7:00 PM	0	52	548	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/19/18 7:30 PM	0	52	548	103362
10/19/18 8:00 PM	0	52	549	103362
10/19/18 8:30 PM	0	52	549	103362
10/19/18 9:00 PM	0	52	549	103362
10/19/18 9:30 PM	0	51	549	103362
10/19/18 10:00 PM	0	51	549	103362
10/19/18 10:30 PM	0	51	549	103362
10/19/18 11:00 PM	0	51	549	103362
10/19/18 11:30 PM	0	51	548	103362
10/20/18 12:00 AM	0	51	549	103362
10/20/18 12:30 AM	0	51	548	103362
10/20/18 1:00 AM	0	51	548	103362
10/20/18 1:30 AM	0	51	548	103362
10/20/18 2:00 AM	0	51	548	103362
10/20/18 2:30 AM	0	51	548	103362
10/20/18 3:00 AM	0	51	548	103362
10/20/18 3:30 AM	0	51	548	103362
10/20/18 4:00 AM	0	51	548	103362
10/20/18 4:30 AM	0	51	548	103362
10/20/18 5:00 AM	0	51	548	103362
10/20/18 5:30 AM	0	51	548	103362
10/20/18 6:00 AM	0	51	548	103362
10/20/18 6:30 AM	0	51	548	103362
10/20/18 7:00 AM	0	51	548	103362
10/20/18 7:30 AM	0	51	548	103362
10/20/18 8:00 AM	0	51	548	103362
10/20/18 8:30 AM	0	51	549	103362
10/20/18 9:00 AM	0	51	549	103362
10/20/18 9:30 AM	0	51	548	103362
10/20/18 10:00 AM	0	51	548	103362
10/20/18 10:30 AM	0	51	548	103362
10/20/18 11:00 AM	0	51	548	103362
10/20/18 11:30 AM	0	51	548	103362
10/20/18 12:00 PM	0	51	548	103362
10/20/18 12:30 PM	0	51	548	103362
10/20/18 1:00 PM	0	51	548	103362
10/20/18 1:30 PM	0	51	548	103362
10/20/18 2:00 PM	0	51	548	103362
10/20/18 2:30 PM	0	52	548	103362
10/20/18 3:00 PM	0	52	548	103362
10/20/18 3:30 PM	0	52	548	103362
10/20/18 4:00 PM	0	52	548	103362
10/20/18 4:30 PM	0	52	548	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/20/18 5:00 PM	0	52	548	103362
10/20/18 5:30 PM	0	52	548	103362
10/20/18 6:00 PM	0	52	548	103362
10/20/18 6:30 PM	0	52	547	103362
10/20/18 7:00 PM	0	52	548	103362
10/20/18 7:30 PM	0	52	548	103362
10/20/18 8:00 PM	0	52	548	103362
10/20/18 8:30 PM	0	52	548	103362
10/20/18 9:00 PM	0	52	548	103362
10/20/18 9:30 PM	0	52	548	103362
10/20/18 10:00 PM	0	52	548	103362
10/20/18 10:30 PM	0	52	548	103362
10/20/18 11:00 PM	0	52	548	103362
10/20/18 11:30 PM	0	52	548	103362
10/21/18 12:00 AM	0	52	548	103362
10/21/18 12:30 AM	0	52	548	103362
10/21/18 1:00 AM	0	52	548	103362
10/21/18 1:30 AM	0	52	548	103362
10/21/18 2:00 AM	0	52	548	103362
10/21/18 2:30 AM	0	52	548	103362
10/21/18 3:00 AM	0	52	548	103362
10/21/18 3:30 AM	0	52	548	103362
10/21/18 4:00 AM	0	52	548	103362
10/21/18 4:30 AM	0	52	548	103362
10/21/18 5:00 AM	0	52	548	103362
10/21/18 5:30 AM	0	52	548	103362
10/21/18 6:00 AM	0	52	548	103362
10/21/18 6:30 AM	0	52	548	103362
10/21/18 7:00 AM	0	52	548	103362
10/21/18 7:30 AM	0	52	548	103362
10/21/18 8:00 AM	0	52	548	103362
10/21/18 8:30 AM	0	52	548	103362
10/21/18 9:00 AM	0	52	548	103362
10/21/18 9:30 AM	0	52	548	103362
10/21/18 10:00 AM	0	52	548	103362
10/21/18 10:30 AM	0	52	548	103362
10/21/18 11:00 AM	0	52	548	103362
10/21/18 11:30 AM	0	52	548	103362
10/21/18 12:00 PM	0	52	548	103362
10/21/18 12:30 PM	0	52	548	103362
10/21/18 1:00 PM	0	52	547	103362
10/21/18 1:30 PM	0	52	547	103362
10/21/18 2:00 PM	0	52	547	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(psi)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/21/18 2:30 PM	0	52	547	103362
10/21/18 3:00 PM	0	52	547	103362
10/21/18 3:30 PM	0	52	547	103362
10/21/18 4:00 PM	0	52	547	103362
10/21/18 4:30 PM	0	52	547	103362
10/21/18 5:00 PM	0	52	547	103362
10/21/18 5:30 PM	0	52	547	103362
10/21/18 6:00 PM	0	52	547	103362
10/21/18 6:30 PM	0	52	547	103362
10/21/18 7:00 PM	0	52	547	103362
10/21/18 7:30 PM	0	52	547	103362
10/21/18 8:00 PM	0	52	547	103362
10/21/18 8:30 PM	0	52	547	103362
10/21/18 9:00 PM	0	52	547	103362
10/21/18 9:30 PM	0	52	547	103362
10/21/18 10:00 PM	0	52	547	103362
10/21/18 10:30 PM	0	52	547	103362
10/21/18 11:00 PM	0	52	547	103362
10/21/18 11:30 PM	0	52	547	103362
10/22/18 12:00 AM	0	52	547	103362
10/22/18 12:30 AM	0	52	547	103362
10/22/18 1:00 AM	0	52	547	103362
10/22/18 1:30 AM	0	52	547	103362
10/22/18 2:00 AM	0	52	547	103362
10/22/18 2:30 AM	0	52	547	103362
10/22/18 3:00 AM	0	52	547	103362
10/22/18 3:30 AM	0	52	547	103362
10/22/18 4:00 AM	0	52	547	103362
10/22/18 4:30 AM	0	52	547	103362
10/22/18 5:00 AM	0	52	547	103362
10/22/18 5:30 AM	0	52	547	103362
10/22/18 6:00 AM	0	52	547	103362
10/22/18 6:30 AM	0	52	547	103362
10/22/18 7:00 AM	0	52	547	103362
10/22/18 7:30 AM	0	52	547	103362
10/22/18 8:00 AM	0	52	547	103362
10/22/18 8:30 AM	0	52	547	103362
10/22/18 9:00 AM	0	52	547	103362
10/22/18 9:30 AM	0	52	547	103362
10/22/18 10:00 AM	0	52	547	103362
10/22/18 10:30 AM	0	52	547	103362
10/22/18 11:00 AM	0	52	547	103362
10/22/18 11:30 AM	0	52	547	103362



# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/22/18 12:00 PM	0	52	547	103362
10/22/18 12:30 PM	0	52	547	103362
10/22/18 1:00 PM	0	52	547	103362
10/22/18 1:30 PM	0	52	547	103362
10/22/18 2:00 PM	0	52	547	103362
10/22/18 2:30 PM	0	52	547	103362
10/22/18 3:00 PM	0	52	546	103362
10/22/18 3:30 PM	0	52	547	103362
10/22/18 4:00 PM	0	52	546	103362
10/22/18 4:30 PM	0	52	546	103362
10/22/18 5:00 PM	0	52	547	103362
10/22/18 5:30 PM	0	52	547	103362
10/22/18 6:00 PM	0	52	546	103362
10/22/18 6:30 PM	0	52	546	103362
10/22/18 7:00 PM	0	52	547	103362
10/22/18 7:30 PM	0	52	547	103362
10/22/18 8:00 PM	0	52	547	103362
10/22/18 8:30 PM	0	52	547	103362
10/22/18 9:00 PM	0	52	547	103362
10/22/18 9:30 PM	0	52	547	103362
10/22/18 10:00 PM	0	52	547	103362
10/22/18 10:30 PM	0	52	547	103362
10/22/18 11:00 PM	0	52	547	103362
10/22/18 11:30 PM	0	52	546	103362
10/23/18 12:00 AM	0	52	546	103362
10/23/18 12:30 AM	0	52	546	103362
10/23/18 1:00 AM	0	52	547	103362
10/23/18 1:30 AM	0	52	547	103362
10/23/18 2:00 AM	0	52	547	103362
10/23/18 2:30 AM	0	52	547	103362
10/23/18 3:00 AM	0	52	546	103362
10/23/18 3:30 AM	0	52	546	103362
10/23/18 4:00 AM	0	52	546	103362
10/23/18 4:30 AM	0	52	546	103362
10/23/18 5:00 AM	0	52	546	103362
10/23/18 5:30 AM	0	52	546	103362
10/23/18 6:00 AM	0	52	546	103362
10/23/18 6:30 AM	0	52	546	103362
10/23/18 7:00 AM	0	52	546	103362
10/23/18 7:30 AM	0	52	546	103362
10/23/18 8:00 AM	0	52	546	103362
10/23/18 8:30 AM	0	52	546	103362
10/23/18 9:00 AM	0	52	546	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/23/18 9:30 AM	0	52	546	103362
10/23/18 10:00 AM	0	52	546	103362
10/23/18 10:30 AM	0	52	546	103362
10/23/18 11:00 AM	0	52	546	103362
10/23/18 11:30 AM	0	52	546	103362
10/23/18 12:00 PM	0	52	546	103362
10/23/18 12:30 PM	0	52	546	103362
10/23/18 1:00 PM	0	52	546	103362
10/23/18 1:30 PM	0	52	546	103362
10/23/18 2:00 PM	0	52	546	103362
10/23/18 2:30 PM	0	52	546	103362
10/23/18 3:00 PM	0	52	546	103362
10/23/18 3:30 PM	0	52	546	103362
10/23/18 4:00 PM	0	52	546	103362
10/23/18 4:30 PM	0	52	546	103362
10/23/18 5:00 PM	0	52	546	103362
10/23/18 5:30 PM	0	52	546	103362
10/23/18 6:00 PM	0	52	546	103362
10/23/18 6:30 PM	0	52	546	103362
10/23/18 7:00 PM	0	52	546	103362
10/23/18 7:30 PM	0	52	546	103362
10/23/18 8:00 PM	0	52	546	103362
10/23/18 8:30 PM	0	52	546	103362
10/23/18 9:00 PM	0	52	546	103362
10/23/18 9:30 PM	0	52	546	103362
10/23/18 10:00 PM	0	52	546	103362
10/23/18 10:30 PM	0	52	546	103362
10/23/18 11:00 PM	0	52	546	103362
10/23/18 11:30 PM	0	52	546	103362
10/24/18 12:00 AM	0	52	546	103362
10/24/18 12:30 AM	0	52	546	103362
10/24/18 1:00 AM	0	52	546	103362
10/24/18 1:30 AM	0	52	546	103362
10/24/18 2:00 AM	0	52	546	103362
10/24/18 2:30 AM	0	52	546	103362
10/24/18 3:00 AM	0	52	546	103362
10/24/18 3:30 AM	0	52	546	103362
10/24/18 4:00 AM	0	52	546	103362
10/24/18 4:30 AM	0	52	546	103362
10/24/18 5:00 AM	0	52	546	103362
10/24/18 5:30 AM	0	52	546	103362
10/24/18 6:00 AM	0	52	546	103362
10/24/18 6:30 AM	0	52	546	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/24/18 7:00 AM	0	52	546	103362
10/24/18 7:30 AM	0	52	546	103362
10/24/18 8:00 AM	0	52	546	103362
10/24/18 8:30 AM	0	52	546	103362
10/24/18 9:00 AM	0	52	546	103362
10/24/18 9:30 AM	0	52	546	103362
10/24/18 10:00 AM	0	52	546	103362
10/24/18 10:30 AM	0	52	546	103362
10/24/18 11:00 AM	0	52	546	103362
10/24/18 11:30 AM	0	52	546	103362
10/24/18 12:00 PM	0	52	546	103362
10/24/18 12:30 PM	0	52	546	103362
10/24/18 1:00 PM	0	52	546	103362
10/24/18 1:30 PM	0	52	546	103362
10/24/18 2:00 PM	0	53	546	103362
10/24/18 2:30 PM	0	53	546	103362
10/24/18 3:00 PM	0	53	545	103362
10/24/18 3:30 PM	0	53	545	103362
10/24/18 4:00 PM	0	53	545	103362
10/24/18 4:30 PM	0	53	545	103362
10/24/18 5:00 PM	0	53	545	103362
10/24/18 5:30 PM	0	53	545	103362
10/24/18 6:00 PM	0	53	545	103362
10/24/18 6:30 PM	0	53	545	103362
10/24/18 7:00 PM	0	53	545	103362
10/24/18 7:30 PM	0	53	545	103362
10/24/18 8:00 PM	0	53	546	103362
10/24/18 8:30 PM	0	53	545	103362
10/24/18 9:00 PM	0	53	545	103362
10/24/18 9:30 PM	0	53	545	103362
10/24/18 10:00 PM	0	53	545	103362
10/24/18 10:30 PM	0	53	545	103362
10/24/18 11:00 PM	0	53	545	103362
10/24/18 11:30 PM	0	53	545	103362
10/25/18 12:00 AM	0	53	545	103362
10/25/18 12:30 AM	0	53	545	103362
10/25/18 1:00 AM	0	53	545	103362
10/25/18 1:30 AM	0	53	545	103362
10/25/18 2:00 AM	0	53	545	103362
10/25/18 2:30 AM	0	53	545	103362
10/25/18 3:00 AM	0	53	545	103362
10/25/18 3:30 AM	0	53	545	103362
10/25/18 4:00 AM	0	53	545	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/25/18 4:30 AM	0	53	545	103362
10/25/18 5:00 AM	0	53	545	103362
10/25/18 5:30 AM	0	52	545	103362
10/25/18 6:00 AM	0	52	545	103362
10/25/18 6:30 AM	0	52	545	103362
10/25/18 7:00 AM	0	52	545	103362
10/25/18 7:30 AM	0	52	545	103362
10/25/18 8:00 AM	0	52	545	103362
10/25/18 8:30 AM	0	52	545	103362
10/25/18 9:00 AM	0	52	545	103362
10/25/18 9:30 AM	0	52	545	103362
10/25/18 10:00 AM	0	52	545	103362
10/25/18 10:30 AM	0	52	545	103362
10/25/18 11:00 AM	0	52	545	103362
10/25/18 11:30 AM	0	53	545	103362
10/25/18 12:00 PM	0	53	545	103362
10/25/18 12:30 PM	0	53	545	103362
10/25/18 1:00 PM	0	53	545	103362
10/25/18 1:30 PM	0	53	545	103362
10/25/18 2:00 PM	0	53	545	103362
10/25/18 2:30 PM	0	53	545	103362
10/25/18 3:00 PM	0	53	545	103362
10/25/18 3:30 PM	0	53	545	103362
10/25/18 4:00 PM	0	53	545	103362
10/25/18 4:30 PM	0	53	545	103362
10/25/18 5:00 PM	0	53	545	103362
10/25/18 5:30 PM	0	53	545	103362
10/25/18 6:00 PM	0	53	544	103362
10/25/18 6:30 PM	0	53	545	103362
10/25/18 7:00 PM	0	53	545	103362
10/25/18 7:30 PM	0	53	545	103362
10/25/18 8:00 PM	0	53	545	103362
10/25/18 8:30 PM	0	53	545	103362
10/25/18 9:00 PM	0	53	545	103362
10/25/18 9:30 PM	0	53	545	103362
10/25/18 10:00 PM	0	53	545	103362
10/25/18 10:30 PM	0	53	545	103362
10/25/18 11:00 PM	0	53	545	103362
10/25/18 11:30 PM	0	53	545	103362
10/26/18 12:00 AM	0	53	545	103362
10/26/18 12:30 AM	0	53	545	103362
10/26/18 1:00 AM	0	53	545	103362
10/26/18 1:30 AM	0	53	545	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/26/18 2:00 AM	0	53	545	103362
10/26/18 2:30 AM	0	53	545	103362
10/26/18 3:00 AM	0	53	545	103362
10/26/18 3:30 AM	0	53	545	103362
10/26/18 4:00 AM	0	53	545	103362
10/26/18 4:30 AM	0	53	545	103362
10/26/18 5:00 AM	0	53	545	103362
10/26/18 5:30 AM	0	53	545	103362
10/26/18 6:00 AM	0	53	545	103362
10/26/18 6:30 AM	0	53	545	103362
10/26/18 7:00 AM	0	53	545	103362
10/26/18 7:30 AM	0	53	544	103362
10/26/18 8:00 AM	0	53	545	103362
10/26/18 8:30 AM	0	53	545	103362
10/26/18 9:00 AM	0	53	545	103362
10/26/18 9:30 AM	0	53	545	103362
10/26/18 10:00 AM	0	53	545	103362
10/26/18 10:30 AM	0	53	545	103362
10/26/18 11:00 AM	0	53	545	103362
10/26/18 11:30 AM	0	53	545	103362
10/26/18 12:00 PM	0	53	544	103362
10/26/18 12:30 PM	0	53	544	103362
10/26/18 1:00 PM	0	53	544	103362
10/26/18 1:30 PM	0	53	544	103362
10/26/18 2:00 PM	0	53	544	103362
10/26/18 2:30 PM	0	53	544	103362
10/26/18 3:00 PM	0	53	544	103362
10/26/18 3:30 PM	0	53	544	103362
10/26/18 4:00 PM	0	53	544	103362
10/26/18 4:30 PM	0	53	544	103362
10/26/18 5:00 PM	0	53	544	103362
10/26/18 5:30 PM	0	53	544	103362
10/26/18 6:00 PM	0	53	544	103362
10/26/18 6:30 PM	0	53	544	103362
10/26/18 7:00 PM	0	53	544	103362
10/26/18 7:30 PM	0	53	544	103362
10/26/18 8:00 PM	0	53	544	103362
10/26/18 8:30 PM	0	53	544	103362
10/26/18 9:00 PM	0	53	544	103362
10/26/18 9:30 PM	0	53	544	103362
10/26/18 10:00 PM	0	53	544	103362
10/26/18 10:30 PM	0	53	544	103362
10/26/18 11:00 PM	0	53	544	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/26/18 11:30 PM	0	53	544	103362
10/27/18 12:00 AM	0	53	544	103362
10/27/18 12:30 AM	0	53	544	103362
10/27/18 1:00 AM	0	53	544	103362
10/27/18 1:30 AM	0	53	544	103362
10/27/18 2:00 AM	0	53	544	103362
10/27/18 2:30 AM	0	53	544	103362
10/27/18 3:00 AM	0	53	544	103362
10/27/18 3:30 AM	0	53	544	103362
10/27/18 4:00 AM	0	53	544	103362
10/27/18 4:30 AM	0	53	544	103362
10/27/18 5:00 AM	0	53	544	103362
10/27/18 5:30 AM	0	53	544	103362
10/27/18 6:00 AM	0	53	544	103362
10/27/18 6:30 AM	0	53	544	103362
10/27/18 7:00 AM	0	53	544	103362
10/27/18 7:30 AM	0	53	544	103362
10/27/18 8:00 AM	0	53	544	103362
10/27/18 8:30 AM	0	53	544	103362
10/27/18 9:00 AM	0	53	544	103362
10/27/18 9:30 AM	0	53	544	103362
10/27/18 10:00 AM	0	53	544	103362
10/27/18 10:30 AM	0	53	544	103362
10/27/18 11:00 AM	0	53	544	103362
10/27/18 11:30 AM	0	53	544	103362
10/27/18 12:00 PM	0	53	544	103362
10/27/18 12:30 PM	0	53	544	103362
10/27/18 1:00 PM	0	53	544	103362
10/27/18 1:30 PM	0	53	544	103362
10/27/18 2:00 PM	0	53	544	103362
10/27/18 2:30 PM	0	53	543	103362
10/27/18 3:00 PM	0	53	543	103362
10/27/18 3:30 PM	0	53	543	103362
10/27/18 4:00 PM	0	53	543	103362
10/27/18 4:30 PM	0	53	543	103362
10/27/18 5:00 PM	0	53	543	103362
10/27/18 5:30 PM	0	53	543	103362
10/27/18 6:00 PM	0	53	543	103362
10/27/18 6:30 PM	0	53	543	103362
10/27/18 7:00 PM	0	53	543	103362
10/27/18 7:30 PM	0	53	544	103362
10/27/18 8:00 PM	0	53	544	103362
10/27/18 8:30 PM	0	53	544	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
10/27/18 9:00 PM	0	53	544	103362
10/27/18 9:30 PM	0	53	544	103362
10/27/18 10:00 PM	0	53	544	103362
10/27/18 10:30 PM	0	53	544	103362
10/27/18 11:00 PM	0	53	544	103362
10/27/18 11:30 PM	0	53	544	103362
10/28/18 12:00 AM	0	53	544	103362
10/28/18 12:30 AM	0	53	544	103362
10/28/18 1:00 AM	0	53	544	103362
10/28/18 1:30 AM	0	53	544	103362
10/28/18 2:00 AM	0	53	543	103362
10/28/18 2:30 AM	0	53	543	103362
10/28/18 3:00 AM	0	53	543	103362
10/28/18 3:30 AM	0	53	543	103362
10/28/18 4:00 AM	0	53	543	103362
10/28/18 4:30 AM	0	53	543	103362
10/28/18 5:00 AM	0	53	543	103362
10/28/18 5:30 AM	0	53	543	103362
10/28/18 6:00 AM	0	53	543	103362
10/28/18 6:30 AM	0	53	543	103362
10/28/18 7:00 AM	0	53	543	103362
10/28/18 7:30 AM	0	53	543	103362
10/28/18 8:00 AM	0	53	544	103362
10/28/18 8:30 AM	0	53	544	103362
10/28/18 9:00 AM	0	53	544	103362
10/28/18 9:30 AM	0	53	544	103362
10/28/18 10:00 AM	0	53	544	103362
10/28/18 10:30 AM	0	53	544	103362
10/28/18 11:00 AM	0	53	543	103362
10/28/18 11:30 AM	0	53	543	103362
10/28/18 12:00 PM	0	53	543	103362
10/28/18 12:30 PM	0	53	543	103362
10/28/18 1:00 PM	0	53	543	103362
10/28/18 1:30 PM	0	53	543	103362
10/28/18 2:00 PM	0	53	543	103362
10/28/18 2:30 PM	0	53	543	103362
10/28/18 3:00 PM	0	53	543	103362
10/28/18 3:30 PM	0	53	543	103362
10/28/18 4:00 PM	0	53	543	103362
10/28/18 4:30 PM	0	54	543	103362
10/28/18 5:00 PM	0	54	543	103362
10/28/18 5:30 PM	0	54	543	103362
10/28/18 6:00 PM	0	54	542	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/28/18 6:30 PM	0	54	543	103362
10/28/18 7:00 PM	0	54	543	103362
10/28/18 7:30 PM	0	54	543	103362
10/28/18 8:00 PM	0	54	543	103362
10/28/18 8:30 PM	0	54	543	103362
10/28/18 9:00 PM	0	54	543	103362
10/28/18 9:30 PM	0	54	543	103362
10/28/18 10:00 PM	0	54	543	103362
10/28/18 10:30 PM	0	54	543	103362
10/28/18 11:00 PM	0	54	543	103362
10/28/18 11:30 PM	0	54	543	103362
10/29/18 12:00 AM	0	54	543	103362
10/29/18 12:30 AM	0	53	543	103362
10/29/18 1:00 AM	0	53	543	103362
10/29/18 1:30 AM	0	53	543	103362
10/29/18 2:00 AM	0	53	543	103362
10/29/18 2:30 AM	0	53	543	103362
10/29/18 3:00 AM	0	53	543	103362
10/29/18 3:30 AM	0	53	543	103362
10/29/18 4:00 AM	0	53	543	103362
10/29/18 4:30 AM	0	53	543	103362
10/29/18 5:00 AM	0	53	543	103362
10/29/18 5:30 AM	0	53	543	103362
10/29/18 6:00 AM	0	53	543	103362
10/29/18 6:30 AM	0	53	543	103362
10/29/18 7:00 AM	0	53	543	103362
10/29/18 7:30 AM	0	53	543	103362
10/29/18 8:00 AM	0	53	543	103362
10/29/18 8:30 AM	0	53	543	103362
10/29/18 9:00 AM	0	53	543	103362
10/29/18 9:30 AM	0	53	543	103362
10/29/18 10:00 AM	0	53	543	103362
10/29/18 10:30 AM	0	53	543	103362
10/29/18 11:00 AM	0	53	543	103362
10/29/18 11:30 AM	0	53	543	103362
10/29/18 12:00 PM	0	53	543	103362
10/29/18 12:30 PM	0	53	543	103362
10/29/18 1:00 PM	0	53	543	103362
10/29/18 1:30 PM	0	53	543	103362
10/29/18 2:00 PM	0	54	543	103362
10/29/18 2:30 PM	0	54	543	103362
10/29/18 3:00 PM	0	54	542	103362
10/29/18 3:30 PM	0	54	542	103362



### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> (gpm)	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> (bbls)
		<u>Pressure</u> (psi)	<u>Pressure</u> (psi)	
10/29/18 4:00 PM	0	54	542	103362
10/29/18 4:30 PM	0	54	542	103362
10/29/18 5:00 PM	0	54	542	103362
10/29/18 5:30 PM	0	54	542	103362
10/29/18 6:00 PM	0	54	542	103362
10/29/18 6:30 PM	0	54	542	103362
10/29/18 7:00 PM	0	54	542	103362
10/29/18 7:30 PM	0	54	542	103362
10/29/18 8:00 PM	0	54	542	103362
10/29/18 8:30 PM	0	54	542	103362
10/29/18 9:00 PM	0	54	543	103362
10/29/18 9:30 PM	0	54	543	103362
10/29/18 10:00 PM	0	54	542	103362
10/29/18 10:30 PM	0	54	542	103362
10/29/18 11:00 PM	0	54	542	103362
10/29/18 11:30 PM	0	54	542	103362
10/30/18 12:00 AM	0	54	542	103362
10/30/18 12:30 AM	0	54	542	103362
10/30/18 1:00 AM	0	54	542	103362
10/30/18 1:30 AM	0	54	542	103362
10/30/18 2:00 AM	0	54	542	103362
10/30/18 2:30 AM	0	54	542	103362
10/30/18 3:00 AM	0	54	542	103362
10/30/18 3:30 AM	0	54	542	103362
10/30/18 4:00 AM	0	54	542	103362
10/30/18 4:30 AM	0	54	542	103362
10/30/18 5:00 AM	0	54	542	103362
10/30/18 5:30 AM	0	54	542	103362
10/30/18 6:00 AM	0	54	542	103362
10/30/18 6:30 AM	0	54	542	103362
10/30/18 7:00 AM	0	54	542	103362
10/30/18 7:30 AM	0	54	542	103362
10/30/18 8:00 AM	0	54	542	103362
10/30/18 8:30 AM	0	54	542	103362
10/30/18 9:00 AM	0	54	542	103362
10/30/18 9:30 AM	0	54	542	103362
10/30/18 10:00 AM	0	54	542	103362
10/30/18 10:30 AM	0	54	543	103362
10/30/18 11:00 AM	0	54	543	103362
10/30/18 11:30 AM	0	54	542	103362
10/30/18 12:00 PM	0	54	542	103362
10/30/18 12:30 PM	0	54	542	103362
10/30/18 1:00 PM	0	54	542	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/30/18 1:30 PM	0	54	542	103362
10/30/18 2:00 PM	0	54	542	103362
10/30/18 2:30 PM	0	54	542	103362
10/30/18 3:00 PM	0	54	542	103362
10/30/18 3:30 PM	0	54	542	103362
10/30/18 4:00 PM	0	54	542	103362
10/30/18 4:30 PM	0	54	542	103362
10/30/18 5:00 PM	0	54	542	103362
10/30/18 5:30 PM	0	54	542	103362
10/30/18 6:00 PM	0	54	542	103362
10/30/18 6:30 PM	0	54	542	103362
10/30/18 7:00 PM	0	54	542	103362
10/30/18 7:30 PM	0	54	542	103362
10/30/18 8:00 PM	0	54	542	103362
10/30/18 8:30 PM	0	54	542	103362
10/30/18 9:00 PM	0	54	542	103362
10/30/18 9:30 PM	0	54	542	103362
10/30/18 10:00 PM	0	54	542	103362
10/30/18 10:30 PM	0	54	542	103362
10/30/18 11:00 PM	0	54	542	103362
10/30/18 11:30 PM	0	54	542	103362
10/31/18 12:00 AM	0	54	542	103362
10/31/18 12:30 AM	0	54	542	103362
10/31/18 1:00 AM	0	54	542	103362
10/31/18 1:30 AM	0	54	542	103362
10/31/18 2:00 AM	0	54	542	103362
10/31/18 2:30 AM	0	54	542	103362
10/31/18 3:00 AM	0	54	542	103362
10/31/18 3:30 AM	0	54	542	103362
10/31/18 4:00 AM	0	54	542	103362
10/31/18 4:30 AM	0	54	542	103362
10/31/18 5:00 AM	0	54	542	103362
10/31/18 5:30 AM	0	54	542	103362
10/31/18 6:00 AM	0	54	542	103362
10/31/18 6:30 AM	0	54	542	103362
10/31/18 7:00 AM	0	54	542	103362
10/31/18 7:30 AM	0	54	542	103362
10/31/18 8:00 AM	0	54	542	103362
10/31/18 8:30 AM	0	54	542	103362
10/31/18 9:00 AM	0	54	542	103362
10/31/18 9:30 AM	0	54	542	103362
10/31/18 10:00 AM	0	54	542	103362
10/31/18 10:30 AM	0	54	542	103362

### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
10/31/18 11:00 AM	0	54	542	103362
10/31/18 11:30 AM	0	54	542	103362
10/31/18 12:00 PM	0	54	542	103362
10/31/18 12:30 PM	0	54	542	103362
10/31/18 1:00 PM	0	54	542	103362
10/31/18 1:30 PM	0	54	542	103362
10/31/18 2:00 PM	0	54	542	103362
10/31/18 2:30 PM	0	54	542	103362
10/31/18 3:00 PM	0	54	541	103362
10/31/18 3:30 PM	0	54	541	103362
10/31/18 4:00 PM	0	54	541	103362
10/31/18 4:30 PM	0	54	541	103362
10/31/18 5:00 PM	0	54	541	103362
10/31/18 5:30 PM	0	54	541	103362
10/31/18 6:00 PM	0	54	541	103362
10/31/18 6:30 PM	0	54	541	103362
10/31/18 7:00 PM	0	54	541	103362
10/31/18 7:30 PM	0	54	541	103362
10/31/18 8:00 PM	0	54	541	103362
10/31/18 8:30 PM	0	54	541	103362
10/31/18 9:00 PM	0	54	541	103362
10/31/18 9:30 PM	0	54	541	103362
10/31/18 10:00 PM	0	54	541	103362
10/31/18 10:30 PM	0	54	541	103362
10/31/18 11:00 PM	0	54	541	103362
10/31/18 11:30 PM	0	54	541	103362
11/1/18 12:00 AM	0	54	541	103362
11/1/18 12:30 AM	0	54	541	103362
11/1/18 1:00 AM	0	54	541	103362
11/1/18 1:30 AM	0	54	541	103362
11/1/18 2:00 AM	0	54	541	103362
11/1/18 2:30 AM	0	54	541	103362
11/1/18 3:00 AM	0	54	541	103362
11/1/18 3:30 AM	0	54	541	103362
11/1/18 4:00 AM	0	54	541	103362
11/1/18 4:30 AM	0	54	541	103362
11/1/18 5:00 AM	0	54	541	103362
11/1/18 5:30 AM	0	54	541	103362
11/1/18 6:00 AM	0	54	541	103362
11/1/18 6:30 AM	0	54	541	103362
11/1/18 7:00 AM	0	54	541	103362
11/1/18 7:30 AM	0	54	541	103362
11/1/18 8:00 AM	0	54	541	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/1/18 8:30 AM	0	54	541	103362
11/1/18 9:00 AM	0	54	541	103362
11/1/18 9:30 AM	0	54	541	103362
11/1/18 10:00 AM	0	54	541	103362
11/1/18 10:30 AM	0	54	541	103362
11/1/18 11:00 AM	0	54	541	103362
11/1/18 11:30 AM	0	54	541	103362
11/1/18 12:00 PM	0	54	541	103362
11/1/18 12:30 PM	0	54	541	103362
11/1/18 1:00 PM	0	54	541	103362
11/1/18 1:30 PM	0	54	541	103362
11/1/18 2:00 PM	0	54	541	103362
11/1/18 2:30 PM	0	54	541	103362
11/1/18 3:00 PM	0	54	541	103362
11/1/18 3:30 PM	0	54	541	103362
11/1/18 4:00 PM	0	54	541	103362
11/1/18 4:30 PM	0	54	541	103362
11/1/18 5:00 PM	0	54	541	103362
11/1/18 5:30 PM	0	54	541	103362
11/1/18 6:00 PM	0	54	540	103362
11/1/18 6:30 PM	0	54	541	103362
11/1/18 7:00 PM	0	54	541	103362
11/1/18 7:30 PM	0	54	541	103362
11/1/18 8:00 PM	0	54	541	103362
11/1/18 8:30 PM	0	54	541	103362
11/1/18 9:00 PM	0	54	541	103362
11/1/18 9:30 PM	0	54	541	103362
11/1/18 10:00 PM	0	54	541	103362
11/1/18 10:30 PM	0	54	541	103362
11/1/18 11:00 PM	0	54	541	103362
11/1/18 11:30 PM	0	54	541	103362
11/2/18 12:00 AM	0	54	541	103362
11/2/18 12:30 AM	0	54	541	103362
11/2/18 1:00 AM	0	54	541	103362
11/2/18 1:30 AM	0	54	541	103362
11/2/18 2:00 AM	0	54	541	103362
11/2/18 2:30 AM	0	54	541	103362
11/2/18 3:00 AM	0	54	541	103362
11/2/18 3:30 AM	0	54	541	103362
11/2/18 4:00 AM	0	54	541	103362
11/2/18 4:30 AM	0	54	541	103362
11/2/18 5:00 AM	0	54	541	103362
11/2/18 5:30 AM	0	54	541	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/2/18 6:00 AM	0	54	541	103362
11/2/18 6:30 AM	0	54	541	103362
11/2/18 7:00 AM	0	54	541	103362
11/2/18 7:30 AM	0	54	540	103362
11/2/18 8:00 AM	0	54	541	103362
11/2/18 8:30 AM	0	54	541	103362
11/2/18 9:00 AM	0	54	541	103362
11/2/18 9:30 AM	0	54	541	103362
11/2/18 10:00 AM	0	54	541	103362
11/2/18 10:30 AM	0	54	541	103362
11/2/18 11:00 AM	0	54	541	103362
11/2/18 11:30 AM	0	54	541	103362
11/2/18 12:00 PM	0	54	540	103362
11/2/18 12:30 PM	0	54	540	103362
11/2/18 1:00 PM	0	54	540	103362
11/2/18 1:30 PM	0	54	540	103362
11/2/18 2:00 PM	0	54	540	103362
11/2/18 2:30 PM	0	54	540	103362
11/2/18 3:00 PM	0	54	540	103362
11/2/18 3:30 PM	0	54	540	103362
11/2/18 4:00 PM	0	54	540	103362
11/2/18 4:30 PM	0	54	540	103362
11/2/18 5:00 PM	0	54	540	103362
11/2/18 5:30 PM	0	54	540	103362
11/2/18 6:00 PM	0	54	540	103362
11/2/18 6:30 PM	0	54	540	103362
11/2/18 7:00 PM	0	54	540	103362
11/2/18 7:30 PM	0	54	540	103362
11/2/18 8:00 PM	0	54	540	103362
11/2/18 8:30 PM	0	54	540	103362
11/2/18 9:00 PM	0	54	540	103362
11/2/18 9:30 PM	0	54	540	103362
11/2/18 10:00 PM	0	54	540	103362
11/2/18 10:30 PM	0	54	540	103362
11/2/18 11:00 PM	0	54	540	103362
11/2/18 11:30 PM	0	54	540	103362
11/3/18 12:00 AM	0	54	540	103362
11/3/18 12:30 AM	0	54	540	103362
11/3/18 1:00 AM	0	54	540	103362
11/3/18 1:30 AM	0	54	540	103362
11/3/18 2:00 AM	0	54	540	103362
11/3/18 2:30 AM	0	54	540	103362
11/3/18 3:00 AM	0	54	540	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/3/18 3:30 AM	0	54	540	103362
11/3/18 4:00 AM	0	54	540	103362
11/3/18 4:30 AM	0	54	540	103362
11/3/18 5:00 AM	0	54	540	103362
11/3/18 5:30 AM	0	54	540	103362
11/3/18 6:00 AM	0	54	540	103362
11/3/18 6:30 AM	0	54	540	103362
11/3/18 7:00 AM	0	54	540	103362
11/3/18 7:30 AM	0	54	540	103362
11/3/18 8:00 AM	0	54	540	103362
11/3/18 8:30 AM	0	54	540	103362
11/3/18 9:00 AM	0	54	540	103362
11/3/18 9:30 AM	0	54	540	103362
11/3/18 10:00 AM	0	54	540	103362
11/3/18 10:30 AM	0	54	540	103362
11/3/18 11:00 AM	0	54	540	103362
11/3/18 11:30 AM	0	54	540	103362
11/3/18 12:00 PM	0	54	540	103362
11/3/18 12:30 PM	0	54	540	103362
11/3/18 1:00 PM	0	54	540	103362
11/3/18 1:30 PM	0	54	540	103362
11/3/18 2:00 PM	0	54	540	103362
11/3/18 2:30 PM	0	54	540	103362
11/3/18 3:00 PM	0	54	540	103362
11/3/18 3:30 PM	0	54	540	103362
11/3/18 4:00 PM	0	55	540	103362
11/3/18 4:30 PM	0	55	540	103362
11/3/18 5:00 PM	0	55	540	103362
11/3/18 5:30 PM	0	55	539	103362
11/3/18 6:00 PM	0	55	539	103362
11/3/18 6:30 PM	0	55	539	103362
11/3/18 7:00 PM	0	55	540	103362
11/3/18 7:30 PM	0	55	540	103362
11/3/18 8:00 PM	0	55	540	103362
11/3/18 8:30 PM	0	55	540	103362
11/3/18 9:00 PM	0	55	540	103362
11/3/18 9:30 PM	0	55	540	103362
11/3/18 10:00 PM	0	55	540	103362
11/3/18 10:30 PM	0	55	540	103362
11/3/18 11:00 PM	0	55	540	103362
11/3/18 11:30 PM	0	55	540	103362
11/4/18 12:00 AM	0	54	540	103362
11/4/18 12:30 AM	0	54	540	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/4/18 1:00 AM	0	54	540	103362
11/4/18 1:30 AM	0	54	540	103362
11/4/18 1:00 AM	0	54	540	103362
11/4/18 1:30 AM	0	54	540	103362
11/4/18 2:00 AM	0	54	539	103362
11/4/18 2:30 AM	0	54	540	103362
11/4/18 3:00 AM	0	54	540	103362
11/4/18 3:30 AM	0	54	539	103362
11/4/18 4:00 AM	0	54	539	103362
11/4/18 4:30 AM	0	54	539	103362
11/4/18 5:00 AM	0	54	539	103362
11/4/18 5:30 AM	0	54	539	103362
11/4/18 6:00 AM	0	54	539	103362
11/4/18 6:30 AM	0	54	539	103362
11/4/18 7:00 AM	0	54	539	103362
11/4/18 7:30 AM	0	54	540	103362
11/4/18 8:00 AM	0	54	540	103362
11/4/18 8:30 AM	0	54	540	103362
11/4/18 9:00 AM	0	54	540	103362
11/4/18 9:30 AM	0	54	539	103362
11/4/18 10:00 AM	0	54	540	103362
11/4/18 10:30 AM	0	54	540	103362
11/4/18 11:00 AM	0	54	540	103362
11/4/18 11:30 AM	0	54	539	103362
11/4/18 12:00 PM	0	54	539	103362
11/4/18 12:30 PM	0	54	539	103362
11/4/18 1:00 PM	0	54	539	103362
11/4/18 1:30 PM	0	55	539	103362
11/4/18 2:00 PM	0	55	539	103362
11/4/18 2:30 PM	0	55	539	103362
11/4/18 3:00 PM	0	55	539	103362
11/4/18 3:30 PM	0	55	539	103362
11/4/18 4:00 PM	0	55	539	103362
11/4/18 4:30 PM	0	55	539	103362
11/4/18 5:00 PM	0	55	539	103362
11/4/18 5:30 PM	0	55	539	103362
11/4/18 6:00 PM	0	55	539	103362
11/4/18 6:30 PM	0	55	539	103362
11/4/18 7:00 PM	0	55	539	103362
11/4/18 7:30 PM	0	55	539	103362
11/4/18 8:00 PM	0	55	539	103362
11/4/18 8:30 PM	0	55	539	103362
11/4/18 9:00 PM	0	55	539	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/4/18 9:30 PM	0	55	539	103362
11/4/18 10:00 PM	0	55	539	103362
11/4/18 10:30 PM	0	55	539	103362
11/4/18 11:00 PM	0	55	539	103362
11/4/18 11:30 PM	0	55	539	103362
11/5/18 12:00 AM	0	55	539	103362
11/5/18 12:30 AM	0	55	539	103362
11/5/18 1:00 AM	0	55	539	103362
11/5/18 1:30 AM	0	55	539	103362
11/5/18 2:00 AM	0	55	539	103362
11/5/18 2:30 AM	0	55	539	103362
11/5/18 3:00 AM	0	55	539	103362
11/5/18 3:30 AM	0	55	539	103362
11/5/18 4:00 AM	0	55	539	103362
11/5/18 4:30 AM	0	55	539	103362
11/5/18 5:00 AM	0	55	539	103362
11/5/18 5:30 AM	0	55	539	103362
11/5/18 6:00 AM	0	55	539	103362
11/5/18 6:30 AM	0	55	539	103362
11/5/18 7:00 AM	0	55	539	103362
11/5/18 7:30 AM	0	55	539	103362
11/5/18 8:00 AM	0	55	539	103362
11/5/18 8:30 AM	0	55	539	103362
11/5/18 9:00 AM	0	55	539	103362
11/5/18 9:30 AM	0	55	539	103362
11/5/18 10:00 AM	0	55	539	103362
11/5/18 10:30 AM	0	55	539	103362
11/5/18 11:00 AM	0	55	539	103362
11/5/18 11:30 AM	0	55	539	103362
11/5/18 12:00 PM	0	55	539	103362
11/5/18 12:30 PM	0	55	539	103362
11/5/18 1:00 PM	0	55	539	103362
11/5/18 1:30 PM	0	55	539	103362
11/5/18 2:00 PM	0	55	539	103362
11/5/18 2:30 PM	0	55	539	103362
11/5/18 3:00 PM	0	55	539	103362
11/5/18 3:30 PM	0	55	539	103362
11/5/18 4:00 PM	0	55	539	103362
11/5/18 4:30 PM	0	55	538	103362
11/5/18 5:00 PM	0	55	538	103362
11/5/18 5:30 PM	0	55	538	103362
11/5/18 6:00 PM	0	55	538	103362
11/5/18 6:30 PM	0	55	539	103362



# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/5/18 7:00 PM	0	55	539	103362
11/5/18 7:30 PM	0	55	539	103362
11/5/18 8:00 PM	0	55	539	103362
11/5/18 8:30 PM	0	55	539	103362
11/5/18 9:00 PM	0	55	539	103362
11/5/18 9:30 PM	0	55	539	103362
11/5/18 10:00 PM	0	55	539	103362
11/5/18 10:30 PM	0	55	539	103362
11/5/18 11:00 PM	0	55	539	103362
11/5/18 11:30 PM	0	55	538	103362
11/6/18 12:00 AM	0	55	539	103362
11/6/18 12:30 AM	0	55	539	103362
11/6/18 1:00 AM	0	55	539	103362
11/6/18 1:30 AM	0	55	539	103362
11/6/18 2:00 AM	0	55	538	103362
11/6/18 2:30 AM	0	55	538	103362
11/6/18 3:00 AM	0	55	539	103362
11/6/18 3:30 AM	0	55	538	103362
11/6/18 4:00 AM	0	55	539	103362
11/6/18 4:30 AM	0	55	538	103362
11/6/18 5:00 AM	0	55	538	103362
11/6/18 5:30 AM	0	55	538	103362
11/6/18 6:00 AM	0	55	538	103362
11/6/18 6:30 AM	0	55	538	103362
11/6/18 7:00 AM	0	55	538	103362
11/6/18 7:30 AM	0	55	539	103362
11/6/18 8:00 AM	0	55	539	103362
11/6/18 8:30 AM	0	55	539	103362
11/6/18 9:00 AM	0	55	539	103362
11/6/18 9:30 AM	0	55	539	103362
11/6/18 10:00 AM	0	55	539	103362
11/6/18 10:30 AM	0	55	539	103362
11/6/18 11:00 AM	0	55	538	103362
11/6/18 11:30 AM	0	55	538	103362
11/6/18 12:00 PM	0	55	538	103362
11/6/18 12:30 PM	0	55	538	103362
11/6/18 1:00 PM	0	55	538	103362
11/6/18 1:30 PM	0	55	538	103362
11/6/18 2:00 PM	0	55	538	103362
11/6/18 2:30 PM	0	55	538	103362
11/6/18 3:00 PM	0	55	538	103362
11/6/18 3:30 PM	0	55	538	103362
11/6/18 4:00 PM	0	55	538	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>	
11/6/18 4:30 PM	0	55	538	103362
11/6/18 5:00 PM	0	55	538	103362
11/6/18 5:30 PM	0	55	538	103362
11/6/18 6:00 PM	0	55	538	103362
11/6/18 6:30 PM	0	55	538	103362
11/6/18 7:00 PM	0	55	538	103362
11/6/18 7:30 PM	0	55	538	103362
11/6/18 8:00 PM	0	55	538	103362
11/6/18 8:30 PM	0	55	538	103362
11/6/18 9:00 PM	0	55	538	103362
11/6/18 9:30 PM	0	55	538	103362
11/6/18 10:00 PM	0	55	538	103362
11/6/18 10:30 PM	0	55	538	103362
11/6/18 11:00 PM	0	55	538	103362
11/6/18 11:30 PM	0	55	538	103362
11/7/18 12:00 AM	0	55	538	103362
11/7/18 12:30 AM	0	55	538	103362
11/7/18 1:00 AM	0	55	538	103362
11/7/18 1:30 AM	0	55	538	103362
11/7/18 2:00 AM	0	55	538	103362
11/7/18 2:30 AM	0	55	538	103362
11/7/18 3:00 AM	0	55	538	103362
11/7/18 3:30 AM	0	55	538	103362
11/7/18 4:00 AM	0	55	538	103362
11/7/18 4:30 AM	0	55	538	103362
11/7/18 5:00 AM	0	55	538	103362
11/7/18 5:30 AM	0	55	538	103362
11/7/18 6:00 AM	0	55	538	103362
11/7/18 6:30 AM	0	55	538	103362
11/7/18 7:00 AM	0	55	538	103362
11/7/18 7:30 AM	0	55	538	103362
11/7/18 8:00 AM	0	55	538	103362
11/7/18 8:30 AM	0	55	538	103362
11/7/18 9:00 AM	0	55	538	103362
11/7/18 9:30 AM	0	55	538	103362
11/7/18 10:00 AM	0	55	538	103362
11/7/18 10:30 AM	0	55	538	103362
11/7/18 11:00 AM	0	55	538	103362
11/7/18 11:30 AM	0	55	538	103362
11/7/18 12:00 PM	0	55	537	103362
11/7/18 12:30 PM	0	55	537	103362
11/7/18 1:00 PM	0	55	537	103362
11/7/18 1:30 PM	0	55	537	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/7/18 2:00 PM	0	55	537	103362
11/7/18 2:30 PM	0	55	537	103362
11/7/18 3:00 PM	0	55	537	103362
11/7/18 3:30 PM	0	55	537	103362
11/7/18 4:00 PM	0	55	537	103362
11/7/18 4:30 PM	0	55	537	103362
11/7/18 5:00 PM	0	55	537	103362
11/7/18 5:30 PM	0	55	537	103362
11/7/18 6:00 PM	0	55	537	103362
11/7/18 6:30 PM	0	55	537	103362
11/7/18 7:00 PM	0	55	538	103362
11/7/18 7:30 PM	0	55	537	103362
11/7/18 8:00 PM	0	55	538	103362
11/7/18 8:30 PM	0	55	538	103362
11/7/18 9:00 PM	0	55	537	103362
11/7/18 9:30 PM	0	55	537	103362
11/7/18 10:00 PM	0	55	537	103362
11/7/18 10:30 PM	0	55	537	103362
11/7/18 11:00 PM	0	55	537	103362
11/7/18 11:30 PM	0	55	537	103362
11/8/18 12:00 AM	0	55	537	103362
11/8/18 12:30 AM	0	55	537	103362
11/8/18 1:00 AM	0	55	537	103362
11/8/18 1:30 AM	0	55	537	103362
11/8/18 2:00 AM	0	55	537	103362
11/8/18 2:30 AM	0	55	537	103362
11/8/18 3:00 AM	0	55	537	103362
11/8/18 3:30 AM	0	55	537	103362
11/8/18 4:00 AM	0	55	537	103362
11/8/18 4:30 AM	0	55	537	103362
11/8/18 5:00 AM	0	55	537	103362
11/8/18 5:30 AM	0	55	537	103362
11/8/18 6:00 AM	0	55	537	103362
11/8/18 6:30 AM	0	55	537	103362
11/8/18 7:00 AM	0	55	537	103362
11/8/18 7:30 AM	0	55	537	103362
11/8/18 8:00 AM	0	55	538	103362
11/8/18 8:30 AM	0	55	538	103362
11/8/18 9:00 AM	0	55	538	103362
11/8/18 9:30 AM	0	55	537	103362
11/8/18 10:00 AM	0	55	537	103362
11/8/18 10:30 AM	0	55	537	103362
11/8/18 11:00 AM	0	55	537	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/8/18 11:30 AM	0	55	537	103362
11/8/18 12:00 PM	0	55	537	103362
11/8/18 12:30 PM	0	55	537	103362
11/8/18 1:00 PM	0	55	537	103362
11/8/18 1:30 PM	0	55	537	103362
11/8/18 2:00 PM	0	55	537	103362
11/8/18 2:30 PM	0	55	537	103362
11/8/18 3:00 PM	0	55	537	103362
11/8/18 3:30 PM	0	55	537	103362
11/8/18 4:00 PM	0	55	537	103362
11/8/18 4:30 PM	0	55	537	103362
11/8/18 5:00 PM	0	55	537	103362
11/8/18 5:30 PM	0	55	537	103362
11/8/18 6:00 PM	0	55	537	103362
11/8/18 6:30 PM	0	55	537	103362
11/8/18 7:00 PM	0	55	537	103362
11/8/18 7:30 PM	0	55	537	103362
11/8/18 8:00 PM	0	55	537	103362
11/8/18 8:30 PM	0	55	537	103362
11/8/18 9:00 PM	0	55	537	103362
11/8/18 9:30 PM	0	55	537	103362
11/8/18 10:00 PM	0	55	537	103362
11/8/18 10:30 PM	0	55	537	103362
11/8/18 11:00 PM	0	55	537	103362
11/8/18 11:30 PM	0	55	537	103362
11/9/18 12:00 AM	0	55	537	103362
11/9/18 12:30 AM	0	55	537	103362
11/9/18 1:00 AM	0	55	537	103362
11/9/18 1:30 AM	0	55	537	103362
11/9/18 2:00 AM	0	55	537	103362
11/9/18 2:30 AM	0	55	537	103362
11/9/18 3:00 AM	0	55	537	103362
11/9/18 3:30 AM	0	55	537	103362
11/9/18 4:00 AM	0	55	537	103362
11/9/18 4:30 AM	0	55	537	103362
11/9/18 5:00 AM	0	55	537	103362
11/9/18 5:30 AM	0	55	537	103362
11/9/18 6:00 AM	0	55	537	103362
11/9/18 6:30 AM	0	55	537	103362
11/9/18 7:00 AM	0	55	537	103362
11/9/18 7:30 AM	0	55	537	103362
11/9/18 8:00 AM	0	56	537	103362
11/9/18 8:30 AM	0	55	537	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/9/18 9:00 AM	0	55	537	103362
11/9/18 9:30 AM	0	55	537	103362
11/9/18 10:00 AM	0	55	537	103362
11/9/18 10:30 AM	0	55	537	103362
11/9/18 11:00 AM	0	55	537	103362
11/9/18 11:30 AM	0	55	537	103362
11/9/18 12:00 PM	0	55	536	103362
11/9/18 12:30 PM	0	55	536	103362
11/9/18 1:00 PM	0	55	536	103362
11/9/18 1:30 PM	0	55	536	103362
11/9/18 2:00 PM	0	55	536	103362
11/9/18 2:30 PM	0	55	536	103362
11/9/18 3:00 PM	0	55	536	103362
11/9/18 3:30 PM	0	55	536	103362
11/9/18 4:00 PM	0	55	536	103362
11/9/18 4:30 PM	0	55	536	103362
11/9/18 5:00 PM	0	55	536	103362
11/9/18 5:30 PM	0	55	536	103362
11/9/18 6:00 PM	0	55	536	103362
11/9/18 6:30 PM	0	55	536	103362
11/9/18 7:00 PM	0	55	536	103362
11/9/18 7:30 PM	0	55	536	103362
11/9/18 8:00 PM	0	55	536	103362
11/9/18 8:30 PM	0	55	536	103362
11/9/18 9:00 PM	0	55	536	103362
11/9/18 9:30 PM	0	55	536	103362
11/9/18 10:00 PM	0	55	536	103362
11/9/18 10:30 PM	0	55	536	103362
11/9/18 11:00 PM	0	55	536	103362
11/9/18 11:30 PM	0	55	536	103362
11/10/18 12:00 AM	0	55	536	103362
11/10/18 12:30 AM	0	55	536	103362
11/10/18 1:00 AM	0	55	536	103362
11/10/18 1:30 AM	0	55	536	103362
11/10/18 2:00 AM	0	55	536	103362
11/10/18 2:30 AM	0	55	536	103362
11/10/18 3:00 AM	0	55	536	103362
11/10/18 3:30 AM	0	55	536	103362
11/10/18 4:00 AM	0	55	536	103362
11/10/18 4:30 AM	0	55	536	103362
11/10/18 5:00 AM	0	55	536	103362
11/10/18 5:30 AM	0	55	536	103362
11/10/18 6:00 AM	0	55	536	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/10/18 6:30 AM	0	55	536	103362
11/10/18 7:00 AM	0	55	536	103362
11/10/18 7:30 AM	0	55	536	103362
11/10/18 8:00 AM	0	55	537	103362
11/10/18 8:30 AM	0	54	537	103362
11/10/18 9:00 AM	0	54	536	103362
11/10/18 9:30 AM	0	54	536	103362
11/10/18 10:00 AM	0	54	536	103362
11/10/18 10:30 AM	0	54	536	103362
11/10/18 11:00 AM	0	54	536	103362
11/10/18 11:30 AM	0	54	536	103362
11/10/18 12:00 PM	0	54	536	103362
11/10/18 12:30 PM	0	54	536	103362
11/10/18 1:00 PM	0	55	536	103362
11/10/18 1:30 PM	0	55	536	103362
11/10/18 2:00 PM	0	55	536	103362
11/10/18 2:30 PM	0	55	536	103362
11/10/18 3:00 PM	0	55	536	103362
11/10/18 3:30 PM	0	55	536	103362
11/10/18 4:00 PM	0	55	536	103362
11/10/18 4:30 PM	0	55	536	103362
11/10/18 5:00 PM	0	55	535	103362
11/10/18 5:30 PM	0	55	535	103362
11/10/18 6:00 PM	0	55	536	103362
11/10/18 6:30 PM	0	55	536	103362
11/10/18 7:00 PM	0	55	536	103362
11/10/18 7:30 PM	0	55	536	103362
11/10/18 8:00 PM	0	55	536	103362
11/10/18 8:30 PM	0	55	536	103362
11/10/18 9:00 PM	0	55	536	103362
11/10/18 9:30 PM	0	55	536	103362
11/10/18 10:00 PM	0	55	536	103362
11/10/18 10:30 PM	0	55	536	103362
11/10/18 11:00 PM	0	55	536	103362
11/10/18 11:30 PM	0	55	536	103362
11/11/18 12:00 AM	0	55	536	103362
11/11/18 12:30 AM	0	55	536	103362
11/11/18 1:00 AM	0	55	536	103362
11/11/18 1:30 AM	0	55	536	103362
11/11/18 2:00 AM	0	55	536	103362
11/11/18 2:30 AM	0	55	536	103362
11/11/18 3:00 AM	0	55	536	103362
11/11/18 3:30 AM	0	55	536	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/11/18 4:00 AM	0	55	536	103362
11/11/18 4:30 AM	0	55	536	103362
11/11/18 5:00 AM	0	55	536	103362
11/11/18 5:30 AM	0	55	536	103362
11/11/18 6:00 AM	0	55	536	103362
11/11/18 6:30 AM	0	55	536	103362
11/11/18 7:00 AM	0	55	536	103362
11/11/18 7:30 AM	0	55	536	103362
11/11/18 8:00 AM	0	55	536	103362
11/11/18 8:30 AM	0	55	536	103362
11/11/18 9:00 AM	0	55	536	103362
11/11/18 9:30 AM	0	55	536	103362
11/11/18 10:00 AM	0	55	536	103362
11/11/18 10:30 AM	0	55	536	103362
11/11/18 11:00 AM	0	55	536	103362
11/11/18 11:30 AM	0	55	536	103362
11/11/18 12:00 PM	0	55	535	103362
11/11/18 12:30 PM	0	55	535	103362
11/11/18 1:00 PM	0	55	535	103362
11/11/18 1:30 PM	0	55	535	103362
11/11/18 2:00 PM	0	55	535	103362
11/11/18 2:30 PM	0	55	535	103362
11/11/18 3:00 PM	0	55	535	103362
11/11/18 3:30 PM	0	55	535	103362
11/11/18 4:00 PM	0	55	535	103362
11/11/18 4:30 PM	0	55	535	103362
11/11/18 5:00 PM	0	55	535	103362
11/11/18 5:30 PM	0	55	535	103362
11/11/18 6:00 PM	0	55	535	103362
11/11/18 6:30 PM	0	55	535	103362
11/11/18 7:00 PM	0	55	535	103362
11/11/18 7:30 PM	0	55	535	103362
11/11/18 8:00 PM	0	55	535	103362
11/11/18 8:30 PM	0	55	535	103362
11/11/18 9:00 PM	0	55	535	103362
11/11/18 9:30 PM	0	55	535	103362
11/11/18 10:00 PM	0	55	535	103362
11/11/18 10:30 PM	0	55	535	103362
11/11/18 11:00 PM	0	55	535	103362
11/11/18 11:30 PM	0	55	535	103362
11/12/18 12:00 AM	0	55	535	103362
11/12/18 12:30 AM	0	55	535	103362
11/12/18 1:00 AM	0	55	535	103362

# Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/12/18 1:30 AM	0	55	535	103362
11/12/18 2:00 AM	0	55	535	103362
11/12/18 2:30 AM	0	55	535	103362
11/12/18 3:00 AM	0	55	535	103362
11/12/18 3:30 AM	0	55	535	103362
11/12/18 4:00 AM	0	55	535	103362
11/12/18 4:30 AM	0	55	535	103362
11/12/18 5:00 AM	0	55	535	103362
11/12/18 5:30 AM	0	55	535	103362
11/12/18 6:00 AM	0	55	535	103362
11/12/18 6:30 AM	0	55	535	103362
11/12/18 7:00 AM	0	55	535	103362
11/12/18 7:30 AM	0	55	535	103362
11/12/18 8:00 AM	0	55	535	103362
11/12/18 8:30 AM	0	55	535	103362
11/12/18 9:00 AM	0	55	535	103362
11/12/18 9:30 AM	0	55	535	103362
11/12/18 10:00 AM	0	55	535	103362
11/12/18 10:30 AM	0	55	535	103362
11/12/18 11:00 AM	0	55	535	103362
11/12/18 11:30 AM	0	55	535	103362
11/12/18 12:00 PM	0	55	535	103362
11/12/18 12:30 PM	0	55	535	103362
11/12/18 1:00 PM	0	55	535	103362
11/12/18 1:30 PM	0	55	535	103362
11/12/18 2:00 PM	0	55	535	103362
11/12/18 2:30 PM	0	55	534	103362
11/12/18 3:00 PM	0	55	535	103362
11/12/18 3:30 PM	0	55	535	103362
11/12/18 4:00 PM	0	55	535	103362
11/12/18 4:30 PM	0	55	535	103362
11/12/18 5:00 PM	0	55	534	103362
11/12/18 5:30 PM	0	55	534	103362
11/12/18 6:00 PM	0	55	535	103362
11/12/18 6:30 PM	0	55	535	103362
11/12/18 7:00 PM	0	55	535	103362
11/12/18 7:30 PM	0	55	535	103362
11/12/18 8:00 PM	0	55	535	103362
11/12/18 8:30 PM	0	55	535	103362
11/12/18 9:00 PM	0	55	535	103362
11/12/18 9:30 PM	0	55	535	103362
11/12/18 10:00 PM	0	55	535	103362
11/12/18 10:30 PM	0	55	535	103362



# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/12/18 11:00 PM	0	55	535	103362
11/12/18 11:30 PM	0	55	535	103362
11/13/18 12:00 AM	0	55	535	103362
11/13/18 12:30 AM	0	55	535	103362
11/13/18 1:00 AM	0	55	535	103362
11/13/18 1:30 AM	0	55	535	103362
11/13/18 2:00 AM	0	55	535	103362
11/13/18 2:30 AM	0	54	535	103362
11/13/18 3:00 AM	0	54	535	103362
11/13/18 3:30 AM	0	54	535	103362
11/13/18 4:00 AM	0	54	534	103362
11/13/18 4:30 AM	0	54	534	103362
11/13/18 5:00 AM	0	54	534	103362
11/13/18 5:30 AM	0	54	534	103362
11/13/18 6:00 AM	0	54	534	103362
11/13/18 6:30 AM	0	54	534	103362
11/13/18 7:00 AM	0	54	534	103362
11/13/18 7:30 AM	0	54	535	103362
11/13/18 8:00 AM	0	55	535	103362
11/13/18 8:30 AM	0	55	535	103362
11/13/18 9:00 AM	0	55	535	103362
11/13/18 9:30 AM	0	54	535	103362
11/13/18 10:00 AM	0	54	535	103362
11/13/18 10:30 AM	0	54	535	103362
11/13/18 11:00 AM	0	54	535	103362
11/13/18 11:30 AM	0	54	534	103362
11/13/18 12:00 PM	0	54	534	103362
11/13/18 12:30 PM	0	54	534	103362
11/13/18 1:00 PM	0	54	534	103362
11/13/18 1:30 PM	0	54	534	103362
11/13/18 2:00 PM	0	54	534	103362
11/13/18 2:30 PM	0	54	534	103362
11/13/18 3:00 PM	0	54	534	103362
11/13/18 3:30 PM	0	54	534	103362
11/13/18 4:00 PM	0	54	534	103362
11/13/18 4:30 PM	0	54	534	103362
11/13/18 5:00 PM	0	54	534	103362
11/13/18 5:30 PM	0	54	534	103362
11/13/18 6:00 PM	0	54	534	103362
11/13/18 6:30 PM	0	54	534	103362
11/13/18 7:00 PM	0	54	534	103362
11/13/18 7:30 PM	0	54	534	103362
11/13/18 8:00 PM	0	54	534	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/13/18 8:30 PM	0	54	534	103362
11/13/18 9:00 PM	0	54	534	103362
11/13/18 9:30 PM	0	54	534	103362
11/13/18 10:00 PM	0	54	534	103362
11/13/18 10:30 PM	0	54	534	103362
11/13/18 11:00 PM	0	54	534	103362
11/13/18 11:30 PM	0	54	534	103362
11/14/18 12:00 AM	0	54	534	103362
11/14/18 12:30 AM	0	54	534	103362
11/14/18 1:00 AM	0	54	534	103362
11/14/18 1:30 AM	0	54	534	103362
11/14/18 2:00 AM	0	54	534	103362
11/14/18 2:30 AM	0	54	534	103362
11/14/18 3:00 AM	0	54	534	103362
11/14/18 3:30 AM	0	54	534	103362
11/14/18 4:00 AM	0	53	534	103362
11/14/18 4:30 AM	0	53	534	103362
11/14/18 5:00 AM	0	53	534	103362
11/14/18 5:30 AM	0	53	534	103362
11/14/18 6:00 AM	0	53	534	103362
11/14/18 6:30 AM	0	53	534	103362
11/14/18 7:00 AM	0	53	534	103362
11/14/18 7:30 AM	0	53	534	103362
11/14/18 8:00 AM	0	54	535	103362
11/14/18 8:30 AM	0	54	535	103362
11/14/18 9:00 AM	0	54	534	103362
11/14/18 9:30 AM	0	53	534	103362
11/14/18 10:00 AM	0	53	534	103362
11/14/18 10:30 AM	0	53	534	103362
11/14/18 11:00 AM	0	53	534	103362
11/14/18 11:30 AM	0	53	534	103362
11/14/18 12:00 PM	0	53	534	103362
11/14/18 12:30 PM	0	53	534	103362
11/14/18 1:00 PM	0	53	534	103362
11/14/18 1:30 PM	0	53	534	103362
11/14/18 2:00 PM	0	53	534	103362
11/14/18 2:30 PM	0	53	534	103362
11/14/18 3:00 PM	0	53	534	103362
11/14/18 3:30 PM	0	53	534	103362
11/14/18 4:00 PM	0	53	533	103362
11/14/18 4:30 PM	0	53	533	103362
11/14/18 5:00 PM	0	53	533	103362
11/14/18 5:30 PM	0	53	533	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/14/18 6:00 PM	0	53	534	103362
11/14/18 6:30 PM	0	53	534	103362
11/14/18 7:00 PM	0	53	534	103362
11/14/18 7:30 PM	0	53	534	103362
11/14/18 8:00 PM	0	53	534	103362
11/14/18 8:30 PM	0	53	534	103362
11/14/18 9:00 PM	0	53	534	103362
11/14/18 9:30 PM	0	53	534	103362
11/14/18 10:00 PM	0	53	534	103362
11/14/18 10:30 PM	0	53	534	103362
11/14/18 11:00 PM	0	53	534	103362
11/14/18 11:30 PM	0	53	534	103362
11/15/18 12:00 AM	0	53	534	103362
11/15/18 12:30 AM	0	53	534	103362
11/15/18 1:00 AM	0	53	534	103362
11/15/18 1:30 AM	0	53	534	103362
11/15/18 2:00 AM	0	53	534	103362
11/15/18 2:30 AM	0	53	534	103362
11/15/18 3:00 AM	0	53	534	103362
11/15/18 3:30 AM	0	53	534	103362
11/15/18 4:00 AM	0	53	534	103362
11/15/18 4:30 AM	0	53	534	103362
11/15/18 5:00 AM	0	53	534	103362
11/15/18 5:30 AM	0	53	534	103362
11/15/18 6:00 AM	0	53	534	103362
11/15/18 6:30 AM	0	53	534	103362
11/15/18 7:00 AM	0	53	534	103362
11/15/18 7:30 AM	0	53	534	103362
11/15/18 8:00 AM	0	53	534	103362
11/15/18 8:30 AM	0	54	534	103362
11/15/18 9:00 AM	0	53	534	103362
11/15/18 9:30 AM	0	53	534	103362
11/15/18 10:00 AM	0	53	534	103362
11/15/18 10:30 AM	0	53	534	103362
11/15/18 11:00 AM	0	53	534	103362
11/15/18 11:30 AM	0	53	534	103362
11/15/18 12:00 PM	0	53	533	103362
11/15/18 12:30 PM	0	53	533	103362
11/15/18 1:00 PM	0	53	533	103362
11/15/18 1:30 PM	0	53	533	103362
11/15/18 2:00 PM	0	53	533	103362
11/15/18 2:30 PM	0	53	533	103362
11/15/18 3:00 PM	0	53	533	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/15/18 3:30 PM	0	53	533	103362
11/15/18 4:00 PM	0	53	533	103362
11/15/18 4:30 PM	0	53	533	103362
11/15/18 5:00 PM	0	53	533	103362
11/15/18 5:30 PM	0	53	533	103362
11/15/18 6:00 PM	0	53	533	103362
11/15/18 6:30 PM	0	53	533	103362
11/15/18 7:00 PM	0	53	533	103362
11/15/18 7:30 PM	0	53	533	103362
11/15/18 8:00 PM	0	53	533	103362
11/15/18 8:30 PM	0	53	533	103362
11/15/18 9:00 PM	0	53	533	103362
11/15/18 9:30 PM	0	53	533	103362
11/15/18 10:00 PM	0	53	533	103362
11/15/18 10:30 PM	0	53	533	103362
11/15/18 11:00 PM	0	53	533	103362
11/15/18 11:30 PM	0	53	533	103362
11/16/18 12:00 AM	0	53	533	103362
11/16/18 12:30 AM	0	53	533	103362
11/16/18 1:00 AM	0	53	533	103362
11/16/18 1:30 AM	0	53	533	103362
11/16/18 2:00 AM	0	53	533	103362
11/16/18 2:30 AM	0	53	533	103362
11/16/18 3:00 AM	0	53	533	103362
11/16/18 3:30 AM	0	53	533	103362
11/16/18 4:00 AM	0	53	533	103362
11/16/18 4:30 AM	0	53	533	103362
11/16/18 5:00 AM	0	53	533	103362
11/16/18 5:30 AM	0	53	533	103362
11/16/18 6:00 AM	0	53	533	103362
11/16/18 6:30 AM	0	53	533	103362
11/16/18 7:00 AM	0	53	533	103362
11/16/18 7:30 AM	0	53	533	103362
11/16/18 8:00 AM	0	53	533	103362
11/16/18 8:30 AM	0	53	534	103362
11/16/18 9:00 AM	0	53	534	103362
11/16/18 9:30 AM	0	53	533	103362
11/16/18 10:00 AM	0	53	533	103362
11/16/18 10:30 AM	0	53	533	103362
11/16/18 11:00 AM	0	53	533	103362
11/16/18 11:30 AM	0	53	533	103362
11/16/18 12:00 PM	0	53	533	103362
11/16/18 12:30 PM	0	53	533	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/16/18 1:00 PM	0	53	533	103362
11/16/18 1:30 PM	0	53	533	103362
11/16/18 2:00 PM	0	53	533	103362
11/16/18 2:30 PM	0	53	533	103362
11/16/18 3:00 PM	0	53	533	103362
11/16/18 3:30 PM	0	53	532	103362
11/16/18 4:00 PM	0	53	533	103362
11/16/18 4:30 PM	0	53	533	103362
11/16/18 5:00 PM	0	53	532	103362
11/16/18 5:30 PM	0	53	533	103362
11/16/18 6:00 PM	0	53	533	103362
11/16/18 6:30 PM	0	53	533	103362
11/16/18 7:00 PM	0	53	533	103362
11/16/18 7:30 PM	0	53	533	103362
11/16/18 8:00 PM	0	53	533	103362
11/16/18 8:30 PM	0	53	533	103362
11/16/18 9:00 PM	0	53	533	103362
11/16/18 9:30 PM	0	53	533	103362
11/16/18 10:00 PM	0	53	533	103362
11/16/18 10:30 PM	0	53	533	103362
11/16/18 11:00 PM	0	53	533	103362
11/16/18 11:30 PM	0	53	533	103362
11/17/18 12:00 AM	0	53	533	103362
11/17/18 12:30 AM	0	53	533	103362
11/17/18 1:00 AM	0	53	533	103362
11/17/18 1:30 AM	0	53	533	103362
11/17/18 2:00 AM	0	53	533	103362
11/17/18 2:30 AM	0	53	533	103362
11/17/18 3:00 AM	0	53	533	103362
11/17/18 3:30 AM	0	53	533	103362
11/17/18 4:00 AM	0	53	533	103362
11/17/18 4:30 AM	0	53	533	103362
11/17/18 5:00 AM	0	53	533	103362
11/17/18 5:30 AM	0	53	533	103362
11/17/18 6:00 AM	0	53	533	103362
11/17/18 6:30 AM	0	53	533	103362
11/17/18 7:00 AM	0	53	533	103362
11/17/18 7:30 AM	0	53	533	103362
11/17/18 8:00 AM	0	53	533	103362
11/17/18 8:30 AM	0	53	533	103362
11/17/18 9:00 AM	0	53	533	103362
11/17/18 9:30 AM	0	53	533	103362
11/17/18 10:00 AM	0	53	533	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer (bbls)</u>
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	
11/17/18 10:30 AM	0	53	533	103362
11/17/18 11:00 AM	0	53	533	103362
11/17/18 11:30 AM	0	53	533	103362
11/17/18 12:00 PM	0	53	533	103362
11/17/18 12:30 PM	0	53	533	103362
11/17/18 1:00 PM	0	53	532	103362
11/17/18 1:30 PM	0	53	532	103362
11/17/18 2:00 PM	0	53	532	103362
11/17/18 2:30 PM	0	53	532	103362
11/17/18 3:00 PM	0	53	532	103362
11/17/18 3:30 PM	0	53	532	103362
11/17/18 4:00 PM	0	53	532	103362
11/17/18 4:30 PM	0	53	532	103362
11/17/18 5:00 PM	0	53	532	103362
11/17/18 5:30 PM	0	53	532	103362
11/17/18 6:00 PM	0	53	532	103362
11/17/18 6:30 PM	0	53	532	103362
11/17/18 7:00 PM	0	53	532	103362
11/17/18 7:30 PM	0	53	532	103362
11/17/18 8:00 PM	0	53	532	103362
11/17/18 8:30 PM	0	53	532	103362
11/17/18 9:00 PM	0	53	532	103362
11/17/18 9:30 PM	0	53	532	103362
11/17/18 10:00 PM	0	53	532	103362
11/17/18 10:30 PM	0	53	532	103362
11/17/18 11:00 PM	0	53	532	103362
11/17/18 11:30 PM	0	53	532	103362
11/18/18 12:00 AM	0	53	532	103362
11/18/18 12:30 AM	0	53	532	103362
11/18/18 1:00 AM	0	53	532	103362
11/18/18 1:30 AM	0	53	532	103362
11/18/18 2:00 AM	0	53	532	103362
11/18/18 2:30 AM	0	53	532	103362
11/18/18 3:00 AM	0	53	532	103362
11/18/18 3:30 AM	0	53	532	103362
11/18/18 4:00 AM	0	53	532	103362
11/18/18 4:30 AM	0	53	532	103362
11/18/18 5:00 AM	0	53	532	103362
11/18/18 5:30 AM	0	53	532	103362
11/18/18 6:00 AM	0	53	532	103362
11/18/18 6:30 AM	0	53	532	103362
11/18/18 7:00 AM	0	53	532	103362
11/18/18 7:30 AM	0	53	532	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/18/18 8:00 AM	0	53	533	103362
11/18/18 8:30 AM	0	53	533	103362
11/18/18 9:00 AM	0	53	533	103362
11/18/18 9:30 AM	0	53	533	103362
11/18/18 10:00 AM	0	53	532	103362
11/18/18 10:30 AM	0	53	532	103362
11/18/18 11:00 AM	0	53	532	103362
11/18/18 11:30 AM	0	53	532	103362
11/18/18 12:00 PM	0	53	532	103362
11/18/18 12:30 PM	0	53	532	103362
11/18/18 1:00 PM	0	53	532	103362
11/18/18 1:30 PM	0	53	532	103362
11/18/18 2:00 PM	0	53	532	103362
11/18/18 2:30 PM	0	53	532	103362
11/18/18 3:00 PM	0	53	532	103362
11/18/18 3:30 PM	0	53	532	103362
11/18/18 4:00 PM	0	53	532	103362
11/18/18 4:30 PM	0	53	532	103362
11/18/18 5:00 PM	0	53	532	103362
11/18/18 5:30 PM	0	53	532	103362
11/18/18 6:00 PM	0	53	532	103362
11/18/18 6:30 PM	0	53	532	103362
11/18/18 7:00 PM	0	53	532	103362
11/18/18 7:30 PM	0	53	532	103362
11/18/18 8:00 PM	0	53	532	103362
11/18/18 8:30 PM	0	53	532	103362
11/18/18 9:00 PM	0	53	532	103362
11/18/18 9:30 PM	0	53	532	103362
11/18/18 10:00 PM	0	53	532	103362
11/18/18 10:30 PM	0	53	532	103362
11/18/18 11:00 PM	0	53	532	103362
11/18/18 11:30 PM	0	53	532	103362
11/19/18 12:00 AM	0	53	532	103362
11/19/18 12:30 AM	0	53	532	103362
11/19/18 1:00 AM	0	53	532	103362
11/19/18 1:30 AM	0	53	532	103362
11/19/18 2:00 AM	0	53	532	103362
11/19/18 2:30 AM	0	53	532	103362
11/19/18 3:00 AM	0	53	532	103362
11/19/18 3:30 AM	0	53	532	103362
11/19/18 4:00 AM	0	53	532	103362
11/19/18 4:30 AM	0	53	532	103362
11/19/18 5:00 AM	0	53	532	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/19/18 5:30 AM	0	53	532	103362
11/19/18 6:00 AM	0	53	532	103362
11/19/18 6:30 AM	0	53	532	103362
11/19/18 7:00 AM	0	53	532	103362
11/19/18 7:30 AM	0	53	532	103362
11/19/18 8:00 AM	0	53	532	103362
11/19/18 8:30 AM	0	54	532	103362
11/19/18 9:00 AM	0	53	532	103362
11/19/18 9:30 AM	0	53	532	103362
11/19/18 10:00 AM	0	53	532	103362
11/19/18 10:30 AM	0	53	532	103362
11/19/18 11:00 AM	0	53	532	103362
11/19/18 11:30 AM	0	53	532	103362
11/19/18 12:00 PM	0	53	532	103362
11/19/18 12:30 PM	0	53	531	103362
11/19/18 1:00 PM	0	53	531	103362
11/19/18 1:30 PM	0	53	531	103362
11/19/18 2:00 PM	0	53	531	103362
11/19/18 2:30 PM	0	53	531	103362
11/19/18 3:00 PM	0	53	531	103362
11/19/18 3:30 PM	0	53	531	103362
11/19/18 4:00 PM	0	53	531	103362
11/19/18 4:30 PM	0	53	531	103362
11/19/18 5:00 PM	0	53	531	103362
11/19/18 5:30 PM	0	53	531	103362
11/19/18 6:00 PM	0	53	531	103362
11/19/18 6:30 PM	0	53	531	103362
11/19/18 7:00 PM	0	53	531	103362
11/19/18 7:30 PM	0	53	531	103362
11/19/18 8:00 PM	0	53	531	103362
11/19/18 8:30 PM	0	53	531	103362
11/19/18 9:00 PM	0	53	531	103362
11/19/18 9:30 PM	0	53	531	103362
11/19/18 10:00 PM	0	53	531	103362
11/19/18 10:30 PM	0	53	531	103362
11/19/18 11:00 PM	0	53	531	103362
11/19/18 11:30 PM	0	53	531	103362
11/20/18 12:00 AM	0	53	531	103362
11/20/18 12:30 AM	0	53	531	103362
11/20/18 1:00 AM	0	53	531	103362
11/20/18 1:30 AM	0	53	531	103362
11/20/18 2:00 AM	0	53	531	103362
11/20/18 2:30 AM	0	53	531	103362



# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/20/18 3:00 AM	0	53	531	103362
11/20/18 3:30 AM	0	53	531	103362
11/20/18 4:00 AM	0	53	531	103362
11/20/18 4:30 AM	0	53	531	103362
11/20/18 5:00 AM	0	53	531	103362
11/20/18 5:30 AM	0	53	531	103362
11/20/18 6:00 AM	0	53	531	103362
11/20/18 6:30 AM	0	53	531	103362
11/20/18 7:00 AM	0	52	531	103362
11/20/18 7:30 AM	0	53	531	103362
11/20/18 8:00 AM	0	53	532	103362
11/20/18 8:30 AM	0	54	532	103362
11/20/18 9:00 AM	0	53	532	103362
11/20/18 9:30 AM	0	53	531	103362
11/20/18 10:00 AM	0	53	531	103362
11/20/18 10:30 AM	0	53	531	103362
11/20/18 11:00 AM	0	53	531	103362
11/20/18 11:30 AM	0	53	531	103362
11/20/18 12:00 PM	0	53	531	103362
11/20/18 12:30 PM	0	53	531	103362
11/20/18 1:00 PM	0	53	531	103362
11/20/18 1:30 PM	0	53	531	103362
11/20/18 2:00 PM	0	53	531	103362
11/20/18 2:30 PM	0	53	531	103362
11/20/18 3:00 PM	0	53	531	103362
11/20/18 3:30 PM	0	53	531	103362
11/20/18 4:00 PM	0	53	531	103362
11/20/18 4:30 PM	0	53	531	103362
11/20/18 5:00 PM	0	53	531	103362
11/20/18 5:30 PM	0	53	531	103362
11/20/18 6:00 PM	0	53	531	103362
11/20/18 6:30 PM	0	53	531	103362
11/20/18 7:00 PM	0	53	531	103362
11/20/18 7:30 PM	0	53	531	103362
11/20/18 8:00 PM	0	53	531	103362
11/20/18 8:30 PM	0	53	531	103362
11/20/18 9:00 PM	0	53	531	103362
11/20/18 9:30 PM	0	53	531	103362
11/20/18 10:00 PM	0	53	531	103362
11/20/18 10:30 PM	0	53	531	103362
11/20/18 11:00 PM	0	53	531	103362
11/20/18 11:30 PM	0	53	531	103362
11/21/18 12:00 AM	0	53	531	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/21/18 12:30 AM	0	53	531	103362
11/21/18 1:00 AM	0	53	531	103362
11/21/18 1:30 AM	0	53	531	103362
11/21/18 2:00 AM	0	53	531	103362
11/21/18 2:30 AM	0	53	531	103362
11/21/18 3:00 AM	0	53	531	103362
11/21/18 3:30 AM	0	53	531	103362
11/21/18 4:00 AM	0	53	531	103362
11/21/18 4:30 AM	0	52	531	103362
11/21/18 5:00 AM	0	52	531	103362
11/21/18 5:30 AM	0	52	531	103362
11/21/18 6:00 AM	0	52	531	103362
11/21/18 6:30 AM	0	52	531	103362
11/21/18 7:00 AM	0	52	531	103362
11/21/18 7:30 AM	0	52	531	103362
11/21/18 8:00 AM	0	53	531	103362
11/21/18 8:30 AM	0	54	531	103362
11/21/18 9:00 AM	0	53	531	103362
11/21/18 9:30 AM	0	52	531	103362
11/21/18 10:00 AM	0	52	531	103362
11/21/18 10:30 AM	0	52	531	103362
11/21/18 11:00 AM	0	52	531	103362
11/21/18 11:30 AM	0	52	531	103362
11/21/18 12:00 PM	0	52	531	103362
11/21/18 12:30 PM	0	52	531	103362
11/21/18 1:00 PM	0	52	531	103362
11/21/18 1:30 PM	0	52	530	103362
11/21/18 2:00 PM	0	52	530	103362
11/21/18 2:30 PM	0	52	530	103362
11/21/18 3:00 PM	0	52	530	103362
11/21/18 3:30 PM	0	52	530	103362
11/21/18 4:00 PM	0	52	530	103362
11/21/18 4:30 PM	0	53	530	103362
11/21/18 5:00 PM	0	52	530	103362
11/21/18 5:30 PM	0	53	530	103362
11/21/18 6:00 PM	0	53	530	103362
11/21/18 6:30 PM	0	53	530	103362
11/21/18 7:00 PM	0	53	530	103362
11/21/18 7:30 PM	0	53	530	103362
11/21/18 8:00 PM	0	52	531	103362
11/21/18 8:30 PM	0	52	531	103362
11/21/18 9:00 PM	0	53	531	103362
11/21/18 9:30 PM	0	52	530	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer (bbls)</u>
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	
11/21/18 10:00 PM	0	52	530	103362
11/21/18 10:30 PM	0	52	530	103362
11/21/18 11:00 PM	0	52	530	103362
11/21/18 11:30 PM	0	52	530	103362
11/22/18 12:00 AM	0	52	530	103362
11/22/18 12:30 AM	0	52	530	103362
11/22/18 1:00 AM	0	52	530	103362
11/22/18 1:30 AM	0	52	530	103362
11/22/18 2:00 AM	0	52	530	103362
11/22/18 2:30 AM	0	52	530	103362
11/22/18 3:00 AM	0	52	530	103362
11/22/18 3:30 AM	0	52	530	103362
11/22/18 4:00 AM	0	52	530	103362
11/22/18 4:30 AM	0	52	530	103362
11/22/18 5:00 AM	0	52	530	103362
11/22/18 5:30 AM	0	52	530	103362
11/22/18 6:00 AM	0	52	530	103362
11/22/18 6:30 AM	0	52	530	103362
11/22/18 7:00 AM	0	52	530	103362
11/22/18 7:30 AM	0	52	530	103362
11/22/18 8:00 AM	0	52	530	103362
11/22/18 8:30 AM	0	52	530	103362
11/22/18 9:00 AM	0	52	530	103362
11/22/18 9:30 AM	0	52	530	103362
11/22/18 10:00 AM	0	52	530	103362
11/22/18 10:30 AM	0	52	530	103362
11/22/18 11:00 AM	0	52	530	103362
11/22/18 11:30 AM	0	52	530	103362
11/22/18 12:00 PM	0	52	530	103362
11/22/18 12:30 PM	0	52	530	103362
11/22/18 1:00 PM	0	52	530	103362
11/22/18 1:30 PM	0	52	530	103362
11/22/18 2:00 PM	0	52	530	103362
11/22/18 2:30 PM	0	52	531	103362
11/22/18 3:00 PM	0	52	530	103362
11/22/18 3:30 PM	0	52	530	103362
11/22/18 4:00 PM	0	52	530	103362
11/22/18 4:30 PM	0	52	530	103362
11/22/18 5:00 PM	0	52	530	103362
11/22/18 5:30 PM	0	52	530	103362
11/22/18 6:00 PM	0	52	530	103362
11/22/18 6:30 PM	0	52	530	103362
11/22/18 7:00 PM	0	52	530	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/22/18 7:30 PM	0	52	530	103362
11/22/18 8:00 PM	0	52	530	103362
11/22/18 8:30 PM	0	52	530	103362
11/22/18 9:00 PM	0	52	530	103362
11/22/18 9:30 PM	0	52	530	103362
11/22/18 10:00 PM	0	52	530	103362
11/22/18 10:30 PM	0	52	530	103362
11/22/18 11:00 PM	0	52	530	103362
11/22/18 11:30 PM	0	52	530	103362
11/23/18 12:00 AM	0	52	530	103362
11/23/18 12:30 AM	0	52	530	103362
11/23/18 1:00 AM	0	52	530	103362
11/23/18 1:30 AM	0	52	530	103362
11/23/18 2:00 AM	0	52	530	103362
11/23/18 2:30 AM	0	52	530	103362
11/23/18 3:00 AM	0	52	530	103362
11/23/18 3:30 AM	0	52	530	103362
11/23/18 4:00 AM	0	52	530	103362
11/23/18 4:30 AM	0	52	530	103362
11/23/18 5:00 AM	0	52	530	103362
11/23/18 5:30 AM	0	52	530	103362
11/23/18 6:00 AM	0	52	530	103362
11/23/18 6:30 AM	0	52	530	103362
11/23/18 7:00 AM	0	52	530	103362
11/23/18 7:30 AM	0	52	530	103362
11/23/18 8:00 AM	0	52	530	103362
11/23/18 8:30 AM	0	52	530	103362
11/23/18 9:00 AM	0	52	530	103362
11/23/18 9:30 AM	0	52	530	103362
11/23/18 10:00 AM	0	52	530	103362
11/23/18 10:30 AM	0	52	530	103362
11/23/18 11:00 AM	0	52	530	103362
11/23/18 11:30 AM	0	52	530	103362
11/23/18 12:00 PM	0	52	530	103362
11/23/18 12:30 PM	0	52	530	103362
11/23/18 1:00 PM	0	52	529	103362
11/23/18 1:30 PM	0	52	530	103362
11/23/18 2:00 PM	0	52	530	103362
11/23/18 2:30 PM	0	52	529	103362
11/23/18 3:00 PM	0	52	529	103362
11/23/18 3:30 PM	0	52	530	103362
11/23/18 4:00 PM	0	53	529	103362
11/23/18 4:30 PM	0	53	529	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/23/18 5:00 PM	0	53	529	103362
11/23/18 5:30 PM	0	53	529	103362
11/23/18 6:00 PM	0	53	529	103362
11/23/18 6:30 PM	0	53	530	103362
11/23/18 7:00 PM	0	53	530	103362
11/23/18 7:30 PM	0	53	530	103362
11/23/18 8:00 PM	0	53	530	103362
11/23/18 8:30 PM	0	53	530	103362
11/23/18 9:00 PM	0	53	530	103362
11/23/18 9:30 PM	0	52	530	103362
11/23/18 10:00 PM	0	52	530	103362
11/23/18 10:30 PM	0	52	530	103362
11/23/18 11:00 PM	0	52	530	103362
11/23/18 11:30 PM	0	53	530	103362
11/24/18 12:00 AM	0	52	530	103362
11/24/18 12:30 AM	0	52	530	103362
11/24/18 1:00 AM	0	52	530	103362
11/24/18 1:30 AM	0	52	529	103362
11/24/18 2:00 AM	0	52	529	103362
11/24/18 2:30 AM	0	52	529	103362
11/24/18 3:00 AM	0	52	529	103362
11/24/18 3:30 AM	0	52	529	103362
11/24/18 4:00 AM	0	52	529	103362
11/24/18 4:30 AM	0	52	529	103362
11/24/18 5:00 AM	0	52	529	103362
11/24/18 5:30 AM	0	52	529	103362
11/24/18 6:00 AM	0	52	529	103362
11/24/18 6:30 AM	0	52	529	103362
11/24/18 7:00 AM	0	52	529	103362
11/24/18 7:30 AM	0	52	530	103362
11/24/18 8:00 AM	0	52	530	103362
11/24/18 8:30 AM	0	52	530	103362
11/24/18 9:00 AM	0	52	530	103362
11/24/18 9:30 AM	0	52	530	103362
11/24/18 10:00 AM	0	52	530	103362
11/24/18 10:30 AM	0	52	530	103362
11/24/18 11:00 AM	0	52	530	103362
11/24/18 11:30 AM	0	52	529	103362
11/24/18 12:00 PM	0	52	529	103362
11/24/18 12:30 PM	0	52	529	103362
11/24/18 1:00 PM	0	52	529	103362
11/24/18 1:30 PM	0	52	529	103362
11/24/18 2:00 PM	0	53	529	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/24/18 2:30 PM	0	53	529	103362
11/24/18 3:00 PM	0	53	529	103362
11/24/18 3:30 PM	0	53	529	103362
11/24/18 4:00 PM	0	53	529	103362
11/24/18 4:30 PM	0	53	529	103362
11/24/18 5:00 PM	0	53	529	103362
11/24/18 5:30 PM	0	53	529	103362
11/24/18 6:00 PM	0	53	529	103362
11/24/18 6:30 PM	0	53	529	103362
11/24/18 7:00 PM	0	53	529	103362
11/24/18 7:30 PM	0	53	529	103362
11/24/18 8:00 PM	0	53	529	103362
11/24/18 8:30 PM	0	53	529	103362
11/24/18 9:00 PM	0	53	529	103362
11/24/18 9:30 PM	0	53	529	103362
11/24/18 10:00 PM	0	53	529	103362
11/24/18 10:30 PM	0	53	529	103362
11/24/18 11:00 PM	0	53	529	103362
11/24/18 11:30 PM	0	53	529	103362
11/25/18 12:00 AM	0	52	529	103362
11/25/18 12:30 AM	0	53	529	103362
11/25/18 1:00 AM	0	53	529	103362
11/25/18 1:30 AM	0	53	529	103362
11/25/18 2:00 AM	0	53	529	103362
11/25/18 2:30 AM	0	53	529	103362
11/25/18 3:00 AM	0	53	529	103362
11/25/18 3:30 AM	0	53	529	103362
11/25/18 4:00 AM	0	53	529	103362
11/25/18 4:30 AM	0	53	529	103362
11/25/18 5:00 AM	0	52	529	103362
11/25/18 5:30 AM	0	52	529	103362
11/25/18 6:00 AM	0	52	529	103362
11/25/18 6:30 AM	0	52	529	103362
11/25/18 7:00 AM	0	52	529	103362
11/25/18 7:30 AM	0	52	529	103362
11/25/18 8:00 AM	0	52	529	103362
11/25/18 8:30 AM	0	52	529	103362
11/25/18 9:00 AM	0	52	529	103362
11/25/18 9:30 AM	0	52	529	103362
11/25/18 10:00 AM	0	52	529	103362
11/25/18 10:30 AM	0	52	529	103362
11/25/18 11:00 AM	0	52	529	103362
11/25/18 11:30 AM	0	52	529	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/25/18 12:00 PM	0	52	529	103362
11/25/18 12:30 PM	0	52	529	103362
11/25/18 1:00 PM	0	52	528	103362
11/25/18 1:30 PM	0	52	528	103362
11/25/18 2:00 PM	0	52	528	103362
11/25/18 2:30 PM	0	52	528	103362
11/25/18 3:00 PM	0	52	528	103362
11/25/18 3:30 PM	0	52	528	103362
11/25/18 4:00 PM	0	52	528	103362
11/25/18 4:30 PM	0	52	528	103362
11/25/18 5:00 PM	0	52	528	103362
11/25/18 5:30 PM	0	52	528	103362
11/25/18 6:00 PM	0	52	528	103362
11/25/18 6:30 PM	0	52	529	103362
11/25/18 7:00 PM	0	52	529	103362
11/25/18 7:30 PM	0	52	529	103362
11/25/18 8:00 PM	0	52	529	103362
11/25/18 8:30 PM	0	52	529	103362
11/25/18 9:00 PM	0	52	529	103362
11/25/18 9:30 PM	0	52	529	103362
11/25/18 10:00 PM	0	52	529	103362
11/25/18 10:30 PM	0	52	529	103362
11/25/18 11:00 PM	0	52	528	103362
11/25/18 11:30 PM	0	52	529	103362
11/26/18 12:00 AM	0	52	528	103362
11/26/18 12:30 AM	0	52	528	103362
11/26/18 1:00 AM	0	52	528	103362
11/26/18 1:30 AM	0	52	528	103362
11/26/18 2:00 AM	0	52	528	103362
11/26/18 2:30 AM	0	52	528	103362
11/26/18 3:00 AM	0	52	528	103362
11/26/18 3:30 AM	0	52	528	103362
11/26/18 4:00 AM	0	52	528	103362
11/26/18 4:30 AM	0	52	528	103362
11/26/18 5:00 AM	0	52	528	103362
11/26/18 5:30 AM	0	52	528	103362
11/26/18 6:00 AM	0	52	528	103362
11/26/18 6:30 AM	0	52	528	103362
11/26/18 7:00 AM	0	51	528	103362
11/26/18 7:30 AM	0	51	528	103362
11/26/18 8:00 AM	0	52	529	103362
11/26/18 8:30 AM	0	52	529	103362
11/26/18 9:00 AM	0	53	529	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/26/18 9:30 AM	0	51	529	103362
11/26/18 10:00 AM	0	51	528	103362
11/26/18 10:30 AM	0	51	529	103362
11/26/18 11:00 AM	0	51	529	103362
11/26/18 11:30 AM	0	51	528	103362
11/26/18 12:00 PM	0	51	528	103362
11/26/18 12:30 PM	0	51	528	103362
11/26/18 1:00 PM	0	51	528	103362
11/26/18 1:30 PM	0	51	528	103362
11/26/18 2:00 PM	0	51	528	103362
11/26/18 2:30 PM	0	51	528	103362
11/26/18 3:00 PM	0	51	528	103362
11/26/18 3:30 PM	0	51	528	103362
11/26/18 4:00 PM	0	51	528	103362
11/26/18 4:30 PM	0	51	528	103362
11/26/18 5:00 PM	0	51	528	103362
11/26/18 5:30 PM	0	51	528	103362
11/26/18 6:00 PM	0	51	528	103362
11/26/18 6:30 PM	0	51	528	103362
11/26/18 7:00 PM	0	51	528	103362
11/26/18 7:30 PM	0	51	528	103362
11/26/18 8:00 PM	0	51	528	103362
11/26/18 8:30 PM	0	51	528	103362
11/26/18 9:00 PM	0	51	528	103362
11/26/18 9:30 PM	0	51	528	103362
11/26/18 10:00 PM	0	51	528	103362
11/26/18 10:30 PM	0	51	528	103362
11/26/18 11:00 PM	0	51	528	103362
11/26/18 11:30 PM	0	51	528	103362
11/27/18 12:00 AM	0	51	528	103362
11/27/18 12:30 AM	0	51	528	103362
11/27/18 1:00 AM	0	51	528	103362
11/27/18 1:30 AM	0	51	528	103362
11/27/18 2:00 AM	0	51	528	103362
11/27/18 2:30 AM	0	51	528	103362
11/27/18 3:00 AM	0	51	528	103362
11/27/18 3:30 AM	0	51	528	103362
11/27/18 4:00 AM	0	51	528	103362
11/27/18 4:30 AM	0	52	528	103362
11/27/18 5:00 AM	0	51	528	103362
11/27/18 5:30 AM	0	51	528	103362
11/27/18 6:00 AM	0	51	528	103362
11/27/18 6:30 AM	0	51	528	103362



### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/27/18 7:00 AM	0	51	528	103362
11/27/18 7:30 AM	0	51	528	103362
11/27/18 8:00 AM	0	51	528	103362
11/27/18 8:30 AM	0	52	528	103362
11/27/18 9:00 AM	0	52	528	103362
11/27/18 9:30 AM	0	51	528	103362
11/27/18 10:00 AM	0	52	528	103362
11/27/18 10:30 AM	0	52	528	103362
11/27/18 11:00 AM	0	52	528	103362
11/27/18 11:30 AM	0	52	528	103362
11/27/18 12:00 PM	0	52	528	103362
11/27/18 12:30 PM	0	52	528	103362
11/27/18 1:00 PM	0	52	528	103362
11/27/18 1:30 PM	0	52	528	103362
11/27/18 2:00 PM	0	52	528	103362
11/27/18 2:30 PM	0	52	528	103362
11/27/18 3:00 PM	0	52	527	103362
11/27/18 3:30 PM	0	52	527	103362
11/27/18 4:00 PM	0	52	527	103362
11/27/18 4:30 PM	0	52	527	103362
11/27/18 5:00 PM	0	52	527	103362
11/27/18 5:30 PM	0	52	528	103362
11/27/18 6:00 PM	0	52	528	103362
11/27/18 6:30 PM	0	52	528	103362
11/27/18 7:00 PM	0	52	528	103362
11/27/18 7:30 PM	0	52	528	103362
11/27/18 8:00 PM	0	52	528	103362
11/27/18 8:30 PM	0	52	528	103362
11/27/18 9:00 PM	0	52	528	103362
11/27/18 9:30 PM	0	52	528	103362
11/27/18 10:00 PM	0	52	528	103362
11/27/18 10:30 PM	0	52	528	103362
11/27/18 11:00 PM	0	52	528	103362
11/27/18 11:30 PM	0	52	528	103362
11/28/18 12:00 AM	0	52	528	103362
11/28/18 12:30 AM	0	52	528	103362
11/28/18 1:00 AM	0	52	528	103362
11/28/18 1:30 AM	0	52	528	103362
11/28/18 2:00 AM	0	52	528	103362
11/28/18 2:30 AM	0	52	528	103362
11/28/18 3:00 AM	0	52	528	103362
11/28/18 3:30 AM	0	52	528	103362
11/28/18 4:00 AM	0	52	528	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
11/28/18 4:30 AM	0	52	528	103362
11/28/18 5:00 AM	0	52	528	103362
11/28/18 5:30 AM	0	52	528	103362
11/28/18 6:00 AM	0	52	528	103362
11/28/18 6:30 AM	0	52	527	103362
11/28/18 7:00 AM	0	52	528	103362
11/28/18 7:30 AM	0	52	528	103362
11/28/18 8:00 AM	0	52	528	103362
11/28/18 8:30 AM	0	52	528	103362
11/28/18 9:00 AM	0	52	528	103362
11/28/18 9:30 AM	0	52	528	103362
11/28/18 10:00 AM	0	52	528	103362
11/28/18 10:30 AM	0	52	528	103362
11/28/18 11:00 AM	0	52	528	103362
11/28/18 11:30 AM	0	52	528	103362
11/28/18 12:00 PM	0	52	528	103362
11/28/18 12:30 PM	0	52	528	103362
11/28/18 1:00 PM	0	52	527	103362
11/28/18 1:30 PM	0	52	527	103362
11/28/18 2:00 PM	0	52	527	103362
11/28/18 2:30 PM	0	52	527	103362
11/28/18 3:00 PM	0	52	527	103362
11/28/18 3:30 PM	0	52	527	103362
11/28/18 4:00 PM	0	52	527	103362
11/28/18 4:30 PM	0	52	527	103362
11/28/18 5:00 PM	0	52	527	103362
11/28/18 5:30 PM	0	52	527	103362
11/28/18 6:00 PM	0	52	527	103362
11/28/18 6:30 PM	0	52	527	103362
11/28/18 7:00 PM	0	52	527	103362
11/28/18 7:30 PM	0	52	527	103362
11/28/18 8:00 PM	0	52	527	103362
11/28/18 8:30 PM	0	52	527	103362
11/28/18 9:00 PM	0	52	527	103362
11/28/18 9:30 PM	0	52	527	103362
11/28/18 10:00 PM	0	52	527	103362
11/28/18 10:30 PM	0	52	527	103362
11/28/18 11:00 PM	0	52	527	103362
11/28/18 11:30 PM	0	52	527	103362
11/29/18 12:00 AM	0	52	527	103362
11/29/18 12:30 AM	0	52	527	103362
11/29/18 1:00 AM	0	52	527	103362
11/29/18 1:30 AM	0	52	527	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/29/18 2:00 AM	0	52	527	103362
11/29/18 2:30 AM	0	52	527	103362
11/29/18 3:00 AM	0	52	527	103362
11/29/18 3:30 AM	0	52	527	103362
11/29/18 4:00 AM	0	52	527	103362
11/29/18 4:30 AM	0	52	527	103362
11/29/18 5:00 AM	0	52	527	103362
11/29/18 5:30 AM	0	52	527	103362
11/29/18 6:00 AM	0	52	527	103362
11/29/18 6:30 AM	0	52	527	103362
11/29/18 7:00 AM	0	52	527	103362
11/29/18 7:30 AM	0	52	527	103362
11/29/18 8:00 AM	0	52	527	103362
11/29/18 8:30 AM	0	52	527	103362
11/29/18 9:00 AM	0	52	527	103362
11/29/18 9:30 AM	0	52	527	103362
11/29/18 10:00 AM	0	52	527	103362
11/29/18 10:30 AM	0	52	527	103362
11/29/18 11:00 AM	0	52	527	103362
11/29/18 11:30 AM	0	52	527	103362
11/29/18 12:00 PM	0	52	527	103362
11/29/18 12:30 PM	0	52	527	103362
11/29/18 1:00 PM	0	52	527	103362
11/29/18 1:30 PM	0	52	527	103362
11/29/18 2:00 PM	0	52	527	103362
11/29/18 2:30 PM	0	52	527	103362
11/29/18 3:00 PM	0	53	527	103362
11/29/18 3:30 PM	0	53	527	103362
11/29/18 4:00 PM	0	53	527	103362
11/29/18 4:30 PM	0	53	527	103362
11/29/18 5:00 PM	0	53	527	103362
11/29/18 5:30 PM	0	53	527	103362
11/29/18 6:00 PM	0	53	527	103362
11/29/18 6:30 PM	0	52	527	103362
11/29/18 7:00 PM	0	53	527	103362
11/29/18 7:30 PM	0	53	527	103362
11/29/18 8:00 PM	0	53	527	103362
11/29/18 8:30 PM	0	53	527	103362
11/29/18 9:00 PM	0	53	527	103362
11/29/18 9:30 PM	0	53	527	103362
11/29/18 10:00 PM	0	53	527	103362
11/29/18 10:30 PM	0	53	527	103362
11/29/18 11:00 PM	0	53	527	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/29/18 11:30 PM	0	53	527	103362
11/30/18 12:00 AM	0	53	527	103362
11/30/18 12:30 AM	0	53	527	103362
11/30/18 1:00 AM	0	53	527	103362
11/30/18 1:30 AM	0	53	527	103362
11/30/18 2:00 AM	0	53	527	103362
11/30/18 2:30 AM	0	53	527	103362
11/30/18 3:00 AM	0	53	527	103362
11/30/18 3:30 AM	0	53	527	103362
11/30/18 4:00 AM	0	53	527	103362
11/30/18 4:30 AM	0	53	527	103362
11/30/18 5:00 AM	0	53	527	103362
11/30/18 5:30 AM	0	53	527	103362
11/30/18 6:00 AM	0	53	527	103362
11/30/18 6:30 AM	0	53	527	103362
11/30/18 7:00 AM	0	53	527	103362
11/30/18 7:30 AM	0	53	527	103362
11/30/18 8:00 AM	0	53	527	103362
11/30/18 8:30 AM	0	53	527	103362
11/30/18 9:00 AM	0	53	527	103362
11/30/18 9:30 AM	0	53	527	103362
11/30/18 10:00 AM	0	53	527	103362
11/30/18 10:30 AM	0	53	527	103362
11/30/18 11:00 AM	0	53	527	103362
11/30/18 11:30 AM	0	53	527	103362
11/30/18 12:00 PM	0	53	527	103362
11/30/18 12:30 PM	0	53	527	103362
11/30/18 1:00 PM	0	53	527	103362
11/30/18 1:30 PM	0	53	527	103362
11/30/18 2:00 PM	0	53	526	103362
11/30/18 2:30 PM	0	53	526	103362
11/30/18 3:00 PM	0	53	526	103362
11/30/18 3:30 PM	0	53	527	103362
11/30/18 4:00 PM	0	53	527	103362
11/30/18 4:30 PM	0	53	526	103362
11/30/18 5:00 PM	0	53	526	103362
11/30/18 5:30 PM	0	53	526	103362
11/30/18 6:00 PM	0	53	526	103362
11/30/18 6:30 PM	0	53	526	103362
11/30/18 7:00 PM	0	53	527	103362
11/30/18 7:30 PM	0	53	526	103362
11/30/18 8:00 PM	0	53	527	103362
11/30/18 8:30 PM	0	53	526	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
11/30/18 9:00 PM	0	53	526	103362
11/30/18 9:30 PM	0	53	526	103362
11/30/18 10:00 PM	0	53	526	103362
11/30/18 10:30 PM	0	53	526	103362
11/30/18 11:00 PM	0	53	526	103362
11/30/18 11:30 PM	0	53	526	103362
12/1/18 12:00 AM	0	53	526	103362
12/1/18 12:30 AM	0	53	526	103362
12/1/18 1:00 AM	0	53	526	103362
12/1/18 1:30 AM	0	53	526	103362
12/1/18 2:00 AM	0	53	526	103362
12/1/18 2:30 AM	0	53	526	103362
12/1/18 3:00 AM	0	53	526	103362
12/1/18 3:30 AM	0	53	526	103362
12/1/18 4:00 AM	0	53	526	103362
12/1/18 4:30 AM	0	53	526	103362
12/1/18 5:00 AM	0	53	526	103362
12/1/18 5:30 AM	0	53	526	103362
12/1/18 6:00 AM	0	53	526	103362
12/1/18 6:30 AM	0	53	526	103362
12/1/18 7:00 AM	0	53	526	103362
12/1/18 7:30 AM	0	53	526	103362
12/1/18 8:00 AM	0	53	526	103362
12/1/18 8:30 AM	0	53	526	103362
12/1/18 9:00 AM	0	53	527	103362
12/1/18 9:30 AM	0	53	527	103362
12/1/18 10:00 AM	0	53	526	103362
12/1/18 10:30 AM	0	53	526	103362
12/1/18 11:00 AM	0	53	526	103362
12/1/18 11:30 AM	0	53	526	103362
12/1/18 12:00 PM	0	53	526	103362
12/1/18 12:30 PM	0	53	526	103362
12/1/18 1:00 PM	0	53	526	103362
12/1/18 1:30 PM	0	53	526	103362
12/1/18 2:00 PM	0	53	526	103362
12/1/18 2:30 PM	0	53	526	103362
12/1/18 3:00 PM	0	53	526	103362
12/1/18 3:30 PM	0	53	526	103362
12/1/18 4:00 PM	0	53	526	103362
12/1/18 4:30 PM	0	53	526	103362
12/1/18 5:00 PM	0	53	526	103362
12/1/18 5:30 PM	0	53	526	103362
12/1/18 6:00 PM	0	53	526	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/1/18 6:30 PM	0	53	526	103362
12/1/18 7:00 PM	0	53	526	103362
12/1/18 7:30 PM	0	53	526	103362
12/1/18 8:00 PM	0	53	526	103362
12/1/18 8:30 PM	0	53	526	103362
12/1/18 9:00 PM	0	53	526	103362
12/1/18 9:30 PM	0	53	526	103362
12/1/18 10:00 PM	0	53	526	103362
12/1/18 10:30 PM	0	53	526	103362
12/1/18 11:00 PM	0	53	526	103362
12/1/18 11:30 PM	0	53	526	103362
12/2/18 12:00 AM	0	53	526	103362
12/2/18 12:30 AM	0	53	526	103362
12/2/18 1:00 AM	0	53	526	103362
12/2/18 1:30 AM	0	53	526	103362
12/2/18 2:00 AM	0	53	526	103362
12/2/18 2:30 AM	0	53	526	103362
12/2/18 3:00 AM	0	53	526	103362
12/2/18 3:30 AM	0	53	526	103362
12/2/18 4:00 AM	0	53	526	103362
12/2/18 4:30 AM	0	53	526	103362
12/2/18 5:00 AM	0	53	526	103362
12/2/18 5:30 AM	0	53	526	103362
12/2/18 6:00 AM	0	53	526	103362
12/2/18 6:30 AM	0	53	526	103362
12/2/18 7:00 AM	0	53	526	103362
12/2/18 7:30 AM	0	53	526	103362
12/2/18 8:00 AM	0	53	526	103362
12/2/18 8:30 AM	0	53	526	103362
12/2/18 9:00 AM	0	53	526	103362
12/2/18 9:30 AM	0	53	526	103362
12/2/18 10:00 AM	0	53	526	103362
12/2/18 10:30 AM	0	53	526	103362
12/2/18 11:00 AM	0	53	526	103362
12/2/18 11:30 AM	0	53	526	103362
12/2/18 12:00 PM	0	53	526	103362
12/2/18 12:30 PM	0	53	526	103362
12/2/18 1:00 PM	0	53	526	103362
12/2/18 1:30 PM	0	53	526	103362
12/2/18 2:00 PM	0	53	526	103362
12/2/18 2:30 PM	0	53	526	103362
12/2/18 3:00 PM	0	53	526	103362
12/2/18 3:30 PM	0	53	526	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> (gpm)	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> (bbls)
		<u>Pressure</u> (psi)	<u>Pressure</u> (psi)	
12/2/18 4:00 PM	0	53	525	103362
12/2/18 4:30 PM	0	53	525	103362
12/2/18 5:00 PM	0	54	525	103362
12/2/18 5:30 PM	0	54	525	103362
12/2/18 6:00 PM	0	54	525	103362
12/2/18 6:30 PM	0	54	525	103362
12/2/18 7:00 PM	0	54	525	103362
12/2/18 7:30 PM	0	54	526	103362
12/2/18 8:00 PM	0	54	526	103362
12/2/18 8:30 PM	0	54	525	103362
12/2/18 9:00 PM	0	53	525	103362
12/2/18 9:30 PM	0	53	525	103362
12/2/18 10:00 PM	0	53	525	103362
12/2/18 10:30 PM	0	53	526	103362
12/2/18 11:00 PM	0	54	525	103362
12/2/18 11:30 PM	0	54	525	103362
12/3/18 12:00 AM	0	54	525	103362
12/3/18 12:30 AM	0	54	525	103362
12/3/18 1:00 AM	0	54	525	103362
12/3/18 1:30 AM	0	54	525	103362
12/3/18 2:00 AM	0	54	525	103362
12/3/18 2:30 AM	0	54	525	103362
12/3/18 3:00 AM	0	54	525	103362
12/3/18 3:30 AM	0	54	525	103362
12/3/18 4:00 AM	0	53	525	103362
12/3/18 4:30 AM	0	53	525	103362
12/3/18 5:00 AM	0	53	525	103362
12/3/18 5:30 AM	0	53	525	103362
12/3/18 6:00 AM	0	53	525	103362
12/3/18 6:30 AM	0	53	525	103362
12/3/18 7:00 AM	0	53	525	103362
12/3/18 7:30 AM	0	53	525	103362
12/3/18 8:00 AM	0	53	525	103362
12/3/18 8:30 AM	0	54	526	103362
12/3/18 9:00 AM	0	54	526	103362
12/3/18 9:30 AM	0	54	526	103362
12/3/18 10:00 AM	0	54	526	103362
12/3/18 10:30 AM	0	54	526	103362
12/3/18 11:00 AM	0	54	525	103362
12/3/18 11:30 AM	0	54	525	103362
12/3/18 12:00 PM	0	54	525	103362
12/3/18 12:30 PM	0	54	525	103362
12/3/18 1:00 PM	0	54	525	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/3/18 1:30 PM	0	54	525	103362
12/3/18 2:00 PM	0	54	525	103362
12/3/18 2:30 PM	0	54	525	103362
12/3/18 3:00 PM	0	54	525	103362
12/3/18 3:30 PM	0	54	525	103362
12/3/18 4:00 PM	0	54	525	103362
12/3/18 4:30 PM	0	54	525	103362
12/3/18 5:00 PM	0	54	525	103362
12/3/18 5:30 PM	0	54	525	103362
12/3/18 6:00 PM	0	54	525	103362
12/3/18 6:30 PM	0	54	525	103362
12/3/18 7:00 PM	0	54	525	103362
12/3/18 7:30 PM	0	54	525	103362
12/3/18 8:00 PM	0	54	525	103362
12/3/18 8:30 PM	0	54	525	103362
12/3/18 9:00 PM	0	54	525	103362
12/3/18 9:30 PM	0	54	525	103362
12/3/18 10:00 PM	0	54	525	103362
12/3/18 10:30 PM	0	54	525	103362
12/3/18 11:00 PM	0	54	525	103362
12/3/18 11:30 PM	0	54	525	103362
12/4/18 12:00 AM	0	54	525	103362
12/4/18 12:30 AM	0	54	525	103362
12/4/18 1:00 AM	0	54	525	103362
12/4/18 1:30 AM	0	54	525	103362
12/4/18 2:00 AM	0	54	525	103362
12/4/18 2:30 AM	0	54	525	103362
12/4/18 3:00 AM	0	54	525	103362
12/4/18 3:30 AM	0	54	525	103362
12/4/18 4:00 AM	0	54	525	103362
12/4/18 4:30 AM	0	54	525	103362
12/4/18 5:00 AM	0	54	525	103362
12/4/18 5:30 AM	0	54	525	103362
12/4/18 6:00 AM	0	54	525	103362
12/4/18 6:30 AM	0	54	525	103362
12/4/18 7:00 AM	0	54	525	103362
12/4/18 7:30 AM	0	54	525	103362
12/4/18 8:00 AM	0	54	525	103362
12/4/18 8:30 AM	0	54	525	103362
12/4/18 9:00 AM	0	54	525	103362
12/4/18 9:30 AM	0	54	525	103362
12/4/18 10:00 AM	0	54	525	103362
12/4/18 10:30 AM	0	54	525	103362



# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/4/18 11:00 AM	0	54	525	103362
12/4/18 11:30 AM	0	54	525	103362
12/4/18 12:00 PM	0	54	525	103362
12/4/18 12:30 PM	0	54	525	103362
12/4/18 1:00 PM	0	54	524	103362
12/4/18 1:30 PM	0	54	525	103362
12/4/18 2:00 PM	0	54	525	103362
12/4/18 2:30 PM	0	54	525	103362
12/4/18 3:00 PM	0	54	525	103362
12/4/18 3:30 PM	0	54	524	103362
12/4/18 4:00 PM	0	54	524	103362
12/4/18 4:30 PM	0	54	524	103362
12/4/18 5:00 PM	0	54	524	103362
12/4/18 5:30 PM	0	54	524	103362
12/4/18 6:00 PM	0	54	524	103362
12/4/18 6:30 PM	0	54	525	103362
12/4/18 7:00 PM	0	54	525	103362
12/4/18 7:30 PM	0	54	525	103362
12/4/18 8:00 PM	0	54	525	103362
12/4/18 8:30 PM	0	54	525	103362
12/4/18 9:00 PM	0	54	525	103362
12/4/18 9:30 PM	0	54	525	103362
12/4/18 10:00 PM	0	54	524	103362
12/4/18 10:30 PM	0	54	525	103362
12/4/18 11:00 PM	0	54	524	103362
12/4/18 11:30 PM	0	54	524	103362
12/5/18 12:00 AM	0	54	525	103362
12/5/18 12:30 AM	0	54	525	103362
12/5/18 1:00 AM	0	54	525	103362
12/5/18 1:30 AM	0	54	525	103362
12/5/18 2:00 AM	0	54	525	103362
12/5/18 2:30 AM	0	54	524	103362
12/5/18 3:00 AM	0	54	525	103362
12/5/18 3:30 AM	0	54	525	103362
12/5/18 4:00 AM	0	54	525	103362
12/5/18 4:30 AM	0	54	525	103362
12/5/18 5:00 AM	0	54	524	103362
12/5/18 5:30 AM	0	54	525	103362
12/5/18 6:00 AM	0	54	524	103362
12/5/18 6:30 AM	0	54	524	103362
12/5/18 7:00 AM	0	54	524	103362
12/5/18 7:30 AM	0	54	525	103362
12/5/18 8:00 AM	0	54	525	103362

### Injection Well Operations Information

		<u>Casing</u>	<u>Injection</u>	
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/5/18 8:30 AM	0	54	525	103362
12/5/18 9:00 AM	0	54	525	103362
12/5/18 9:30 AM	0	54	525	103362
12/5/18 10:00 AM	0	54	525	103362
12/5/18 10:30 AM	0	54	525	103362
12/5/18 11:00 AM	0	54	525	103362
12/5/18 11:30 AM	0	54	524	103362
12/5/18 12:00 PM	0	54	524	103362
12/5/18 12:30 PM	0	54	524	103362
12/5/18 1:00 PM	0	54	524	103362
12/5/18 1:30 PM	0	54	524	103362
12/5/18 2:00 PM	0	54	524	103362
12/5/18 2:30 PM	0	54	524	103362
12/5/18 3:00 PM	0	54	524	103362
12/5/18 3:30 PM	0	54	524	103362
12/5/18 4:00 PM	0	54	524	103362
12/5/18 4:30 PM	0	54	524	103362
12/5/18 5:00 PM	0	54	524	103362
12/5/18 5:30 PM	0	55	524	103362
12/5/18 6:00 PM	0	55	524	103362
12/5/18 6:30 PM	0	55	524	103362
12/5/18 7:00 PM	0	55	524	103362
12/5/18 7:30 PM	0	55	524	103362
12/5/18 8:00 PM	0	55	524	103362
12/5/18 8:30 PM	0	55	524	103362
12/5/18 9:00 PM	0	55	524	103362
12/5/18 9:30 PM	0	55	524	103362
12/5/18 10:00 PM	0	55	524	103362
12/5/18 10:30 PM	0	55	524	103362
12/5/18 11:00 PM	0	55	524	103362
12/5/18 11:30 PM	0	55	524	103362
12/6/18 12:00 AM	0	55	524	103362
12/6/18 12:30 AM	0	55	524	103362
12/6/18 1:00 AM	0	55	524	103362
12/6/18 1:30 AM	0	55	524	103362
12/6/18 2:00 AM	0	55	524	103362
12/6/18 2:30 AM	0	55	524	103362
12/6/18 3:00 AM	0	55	524	103362
12/6/18 3:30 AM	0	55	524	103362
12/6/18 4:00 AM	0	55	524	103362
12/6/18 4:30 AM	0	55	524	103362
12/6/18 5:00 AM	0	55	524	103362
12/6/18 5:30 AM	0	55	524	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/6/18 6:00 AM	0	55	524	103362
12/6/18 6:30 AM	0	55	524	103362
12/6/18 7:00 AM	0	55	524	103362
12/6/18 7:30 AM	0	55	524	103362
12/6/18 8:00 AM	0	55	524	103362
12/6/18 8:30 AM	0	55	524	103362
12/6/18 9:00 AM	0	55	524	103362
12/6/18 9:30 AM	0	55	524	103362
12/6/18 10:00 AM	0	55	524	103362
12/6/18 10:30 AM	0	55	524	103362
12/6/18 11:00 AM	0	55	524	103362
12/6/18 11:30 AM	0	55	524	103362
12/6/18 12:00 PM	0	55	524	103362
12/6/18 12:30 PM	0	55	524	103362
12/6/18 1:00 PM	0	55	524	103362
12/6/18 1:30 PM	0	55	524	103362
12/6/18 2:00 PM	0	55	524	103362
12/6/18 2:30 PM	0	55	524	103362
12/6/18 3:00 PM	0	55	524	103362
12/6/18 3:30 PM	0	55	524	103362
12/6/18 4:00 PM	0	55	524	103362
12/6/18 4:30 PM	0	55	524	103362
12/6/18 5:00 PM	0	55	524	103362
12/6/18 5:30 PM	0	55	524	103362
12/6/18 6:00 PM	0	55	524	103362
12/6/18 6:30 PM	0	55	524	103362
12/6/18 7:00 PM	0	55	524	103362
12/6/18 7:30 PM	0	55	524	103362
12/6/18 8:00 PM	0	55	524	103362
12/6/18 8:30 PM	0	55	524	103362
12/6/18 9:00 PM	0	55	524	103362
12/6/18 9:30 PM	0	55	524	103362
12/6/18 10:00 PM	0	55	524	103362
12/6/18 10:30 PM	0	55	524	103362
12/6/18 11:00 PM	0	55	524	103362
12/6/18 11:30 PM	0	55	524	103362
12/7/18 12:00 AM	0	55	524	103362
12/7/18 12:30 AM	0	55	524	103362
12/7/18 1:00 AM	0	55	524	103362
12/7/18 1:30 AM	0	55	524	103362
12/7/18 2:00 AM	0	55	524	103362
12/7/18 2:30 AM	0	55	524	103362
12/7/18 3:00 AM	0	55	524	103362

### Injection Well Operations Information

		<u>Casing</u>	<u>Injection</u>	
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/7/18 3:30 AM	0	55	524	103362
12/7/18 4:00 AM	0	55	524	103362
12/7/18 4:30 AM	0	55	524	103362
12/7/18 5:00 AM	0	55	524	103362
12/7/18 5:30 AM	0	55	524	103362
12/7/18 6:00 AM	0	55	524	103362
12/7/18 6:30 AM	0	55	524	103362
12/7/18 7:00 AM	0	55	524	103362
12/7/18 7:30 AM	0	55	524	103362
12/7/18 8:00 AM	0	55	524	103362
12/7/18 8:30 AM	0	55	524	103362
12/7/18 9:00 AM	0	55	524	103362
12/7/18 9:30 AM	0	55	524	103362
12/7/18 10:00 AM	0	55	524	103362
12/7/18 10:30 AM	0	55	524	103362
12/7/18 11:00 AM	0	55	524	103362
12/7/18 11:30 AM	0	55	524	103362
12/7/18 12:00 PM	0	55	524	103362
12/7/18 12:30 PM	0	55	523	103362
12/7/18 1:00 PM	0	55	523	103362
12/7/18 1:30 PM	0	55	523	103362
12/7/18 2:00 PM	0	55	523	103362
12/7/18 2:30 PM	0	55	523	103362
12/7/18 3:00 PM	0	55	523	103362
12/7/18 3:30 PM	0	55	523	103362
12/7/18 4:00 PM	0	55	523	103362
12/7/18 4:30 PM	0	55	523	103362
12/7/18 5:00 PM	0	55	523	103362
12/7/18 5:30 PM	0	55	523	103362
12/7/18 6:00 PM	0	55	523	103362
12/7/18 6:30 PM	0	55	523	103362
12/7/18 7:00 PM	0	55	523	103362
12/7/18 7:30 PM	0	55	523	103362
12/7/18 8:00 PM	0	55	523	103362
12/7/18 8:30 PM	0	55	523	103362
12/7/18 9:00 PM	0	55	523	103362
12/7/18 9:30 PM	0	55	523	103362
12/7/18 10:00 PM	0	55	523	103362
12/7/18 10:30 PM	0	55	523	103362
12/7/18 11:00 PM	0	55	523	103362
12/7/18 11:30 PM	0	55	523	103362
12/8/18 12:00 AM	0	55	523	103362
12/8/18 12:30 AM	0	55	523	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/8/18 1:00 AM	0	55	523	103362
12/8/18 1:30 AM	0	55	523	103362
12/8/18 2:00 AM	0	55	523	103362
12/8/18 2:30 AM	0	55	523	103362
12/8/18 3:00 AM	0	55	523	103362
12/8/18 3:30 AM	0	55	523	103362
12/8/18 4:00 AM	0	55	523	103362
12/8/18 4:30 AM	0	55	523	103362
12/8/18 5:00 AM	0	55	523	103362
12/8/18 5:30 AM	0	55	523	103362
12/8/18 6:00 AM	0	55	523	103362
12/8/18 6:30 AM	0	55	523	103362
12/8/18 7:00 AM	0	55	523	103362
12/8/18 7:30 AM	0	55	523	103362
12/8/18 8:00 AM	0	55	523	103362
12/8/18 8:30 AM	0	55	523	103362
12/8/18 9:00 AM	0	55	523	103362
12/8/18 9:30 AM	0	55	523	103362
12/8/18 10:00 AM	0	55	523	103362
12/8/18 10:30 AM	0	55	523	103362
12/8/18 11:00 AM	0	55	523	103362
12/8/18 11:30 AM	0	55	523	103362
12/8/18 12:00 PM	0	55	523	103362
12/8/18 12:30 PM	0	55	523	103362
12/8/18 1:00 PM	0	55	523	103362
12/8/18 1:30 PM	0	55	523	103362
12/8/18 2:00 PM	0	55	523	103362
12/8/18 2:30 PM	0	55	523	103362
12/8/18 3:00 PM	0	55	523	103362
12/8/18 3:30 PM	0	55	523	103362
12/8/18 4:00 PM	0	55	523	103362
12/8/18 4:30 PM	0	55	523	103362
12/8/18 5:00 PM	0	55	523	103362
12/8/18 5:30 PM	0	55	523	103362
12/8/18 6:00 PM	0	55	523	103362
12/8/18 6:30 PM	0	55	523	103362
12/8/18 7:00 PM	0	55	523	103362
12/8/18 7:30 PM	0	55	523	103362
12/8/18 8:00 PM	0	55	523	103362
12/8/18 8:30 PM	0	55	523	103362
12/8/18 9:00 PM	0	55	523	103362
12/8/18 9:30 PM	0	55	523	103362
12/8/18 10:00 PM	0	55	523	103362

### Injection Well Operations Information

		<u>Casing</u>	<u>Injection</u>	
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/8/18 10:30 PM	0	55	523	103362
12/8/18 11:00 PM	0	55	523	103362
12/8/18 11:30 PM	0	55	523	103362
12/9/18 12:00 AM	0	55	523	103362
12/9/18 12:30 AM	0	56	523	103362
12/9/18 1:00 AM	0	55	523	103362
12/9/18 1:30 AM	0	55	523	103362
12/9/18 2:00 AM	0	55	523	103362
12/9/18 2:30 AM	0	56	523	103362
12/9/18 3:00 AM	0	56	523	103362
12/9/18 3:30 AM	0	56	523	103362
12/9/18 4:00 AM	0	56	523	103362
12/9/18 4:30 AM	0	56	523	103362
12/9/18 5:00 AM	0	56	523	103362
12/9/18 5:30 AM	0	56	523	103362
12/9/18 6:00 AM	0	56	523	103362
12/9/18 6:30 AM	0	56	523	103362
12/9/18 7:00 AM	0	56	523	103362
12/9/18 7:30 AM	0	56	523	103362
12/9/18 8:00 AM	0	56	523	103362
12/9/18 8:30 AM	0	56	523	103362
12/9/18 9:00 AM	0	56	523	103362
12/9/18 9:30 AM	0	56	523	103362
12/9/18 10:00 AM	0	56	523	103362
12/9/18 10:30 AM	0	56	523	103362
12/9/18 11:00 AM	0	56	523	103362
12/9/18 11:30 AM	0	56	523	103362
12/9/18 12:00 PM	0	56	523	103362
12/9/18 12:30 PM	0	56	523	103362
12/9/18 1:00 PM	0	56	523	103362
12/9/18 1:30 PM	0	56	523	103362
12/9/18 2:00 PM	0	56	523	103362
12/9/18 2:30 PM	0	56	523	103362
12/9/18 3:00 PM	0	56	523	103362
12/9/18 3:30 PM	0	56	523	103362
12/9/18 4:00 PM	0	56	523	103362
12/9/18 4:30 PM	0	56	522	103362
12/9/18 5:00 PM	0	56	522	103362
12/9/18 5:30 PM	0	56	522	103362
12/9/18 6:00 PM	0	56	522	103362
12/9/18 6:30 PM	0	56	522	103362
12/9/18 7:00 PM	0	56	522	103362
12/9/18 7:30 PM	0	56	522	103362

### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/9/18 8:00 PM	0	56	522	103362
12/9/18 8:30 PM	0	56	523	103362
12/9/18 9:00 PM	0	56	522	103362
12/9/18 9:30 PM	0	56	522	103362
12/9/18 10:00 PM	0	56	522	103362
12/9/18 10:30 PM	0	56	522	103362
12/9/18 11:00 PM	0	56	522	103362
12/9/18 11:30 PM	0	56	522	103362
12/10/18 12:00 AM	0	56	522	103362
12/10/18 12:30 AM	0	56	522	103362
12/10/18 1:00 AM	0	56	522	103362
12/10/18 1:30 AM	0	56	522	103362
12/10/18 2:00 AM	0	56	522	103362
12/10/18 2:30 AM	0	56	522	103362
12/10/18 3:00 AM	0	56	522	103362
12/10/18 3:30 AM	0	56	522	103362
12/10/18 4:00 AM	0	56	522	103362
12/10/18 4:30 AM	0	56	522	103362
12/10/18 5:00 AM	0	56	522	103362
12/10/18 5:30 AM	0	56	522	103362
12/10/18 6:00 AM	0	56	522	103362
12/10/18 6:30 AM	0	56	522	103362
12/10/18 7:00 AM	0	56	522	103362
12/10/18 7:30 AM	0	56	522	103362
12/10/18 8:00 AM	0	56	522	103362
12/10/18 8:30 AM	0	56	522	103362
12/10/18 9:00 AM	0	56	522	103362
12/10/18 9:30 AM	0	56	522	103362
12/10/18 10:00 AM	0	56	522	103362
12/10/18 10:30 AM	0	56	522	103362
12/10/18 11:00 AM	0	56	522	103362
12/10/18 11:30 AM	0	56	522	103362
12/10/18 12:00 PM	0	56	522	103362
12/10/18 12:30 PM	0	56	522	103362
12/10/18 1:00 PM	0	56	522	103362
12/10/18 1:30 PM	0	56	522	103362
12/10/18 2:00 PM	0	56	522	103362
12/10/18 2:30 PM	0	56	522	103362
12/10/18 3:00 PM	0	56	522	103362
12/10/18 3:30 PM	0	56	522	103362
12/10/18 4:00 PM	0	56	522	103362
12/10/18 4:30 PM	0	56	522	103362
12/10/18 5:00 PM	0	56	522	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/10/18 5:30 PM	0	56	522	103362
12/10/18 6:00 PM	0	56	522	103362
12/10/18 6:30 PM	0	56	522	103362
12/10/18 7:00 PM	0	56	522	103362
12/10/18 7:30 PM	0	56	522	103362
12/10/18 8:00 PM	0	56	522	103362
12/10/18 8:30 PM	0	56	522	103362
12/10/18 9:00 PM	0	56	522	103362
12/10/18 9:30 PM	0	56	522	103362
12/10/18 10:00 PM	0	56	522	103362
12/10/18 10:30 PM	0	56	522	103362
12/10/18 11:00 PM	0	56	522	103362
12/10/18 11:30 PM	0	56	522	103362
12/11/18 12:00 AM	0	56	522	103362
12/11/18 12:30 AM	0	56	522	103362
12/11/18 1:00 AM	0	56	522	103362
12/11/18 1:30 AM	0	56	522	103362
12/11/18 2:00 AM	0	56	522	103362
12/11/18 2:30 AM	0	56	522	103362
12/11/18 3:00 AM	0	56	522	103362
12/11/18 3:30 AM	0	56	522	103362
12/11/18 4:00 AM	0	56	522	103362
12/11/18 4:30 AM	0	56	522	103362
12/11/18 5:00 AM	0	56	522	103362
12/11/18 5:30 AM	0	56	522	103362
12/11/18 6:00 AM	0	56	522	103362
12/11/18 6:30 AM	0	56	522	103362
12/11/18 7:00 AM	0	56	522	103362
12/11/18 7:30 AM	0	56	522	103362
12/11/18 8:00 AM	0	56	522	103362
12/11/18 8:30 AM	0	56	522	103362
12/11/18 9:00 AM	0	56	522	103362
12/11/18 9:30 AM	0	56	522	103362
12/11/18 10:00 AM	0	56	522	103362
12/11/18 10:30 AM	0	56	522	103362
12/11/18 11:00 AM	0	56	522	103362
12/11/18 11:30 AM	0	56	522	103362
12/11/18 12:00 PM	0	56	522	103362
12/11/18 12:30 PM	0	56	522	103362
12/11/18 1:00 PM	0	56	522	103362
12/11/18 1:30 PM	0	56	522	103362
12/11/18 2:00 PM	0	56	522	103362
12/11/18 2:30 PM	0	56	522	103362



# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/11/18 3:00 PM	0	56	522	103362
12/11/18 3:30 PM	0	57	522	103362
12/11/18 4:00 PM	0	57	522	103362
12/11/18 4:30 PM	0	57	521	103362
12/11/18 5:00 PM	0	57	521	103362
12/11/18 5:30 PM	0	57	521	103362
12/11/18 6:00 PM	0	57	522	103362
12/11/18 6:30 PM	0	56	522	103362
12/11/18 7:00 PM	0	56	522	103362
12/11/18 7:30 PM	0	57	522	103362
12/11/18 8:00 PM	0	57	522	103362
12/11/18 8:30 PM	0	57	522	103362
12/11/18 9:00 PM	0	57	522	103362
12/11/18 9:30 PM	0	57	522	103362
12/11/18 10:00 PM	0	57	522	103362
12/11/18 10:30 PM	0	57	522	103362
12/11/18 11:00 PM	0	57	522	103362
12/11/18 11:30 PM	0	57	522	103362
12/12/18 12:00 AM	0	56	522	103362
12/12/18 12:30 AM	0	56	522	103362
12/12/18 1:00 AM	0	57	522	103362
12/12/18 1:30 AM	0	57	522	103362
12/12/18 2:00 AM	0	56	522	103362
12/12/18 2:30 AM	0	56	522	103362
12/12/18 3:00 AM	0	56	522	103362
12/12/18 3:30 AM	0	56	522	103362
12/12/18 4:00 AM	0	56	522	103362
12/12/18 4:30 AM	0	56	522	103362
12/12/18 5:00 AM	0	56	522	103362
12/12/18 5:30 AM	0	56	522	103362
12/12/18 6:00 AM	0	57	522	103362
12/12/18 6:30 AM	0	56	522	103362
12/12/18 7:00 AM	0	56	522	103362
12/12/18 7:30 AM	0	56	522	103362
12/12/18 8:00 AM	0	57	522	103362
12/12/18 8:30 AM	0	57	522	103362
12/12/18 9:00 AM	0	57	522	103362
12/12/18 9:30 AM	0	57	522	103362
12/12/18 10:00 AM	0	57	522	103362
12/12/18 10:30 AM	0	57	522	103362
12/12/18 11:00 AM	0	57	522	103362
12/12/18 11:30 AM	0	57	522	103362
12/12/18 12:00 PM	0	57	522	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/12/18 12:30 PM	0	57	521	103362
12/12/18 1:00 PM	0	57	521	103362
12/12/18 1:30 PM	0	57	521	103362
12/12/18 2:00 PM	0	57	522	103362
12/12/18 2:30 PM	0	57	522	103362
12/12/18 3:00 PM	0	57	521	103362
12/12/18 3:30 PM	0	57	521	103362
12/12/18 4:00 PM	0	57	521	103362
12/12/18 4:30 PM	0	57	521	103362
12/12/18 5:00 PM	0	57	521	103362
12/12/18 5:30 PM	0	57	521	103362
12/12/18 6:00 PM	0	57	521	103362
12/12/18 6:30 PM	0	57	521	103362
12/12/18 7:00 PM	0	57	521	103362
12/12/18 7:30 PM	0	57	521	103362
12/12/18 8:00 PM	0	57	521	103362
12/12/18 8:30 PM	0	57	522	103362
12/12/18 9:00 PM	0	57	521	103362
12/12/18 9:30 PM	0	57	521	103362
12/12/18 10:00 PM	0	57	521	103362
12/12/18 10:30 PM	0	57	521	103362
12/12/18 11:00 PM	0	57	521	103362
12/12/18 11:30 PM	0	57	521	103362
12/13/18 12:00 AM	0	57	521	103362
12/13/18 12:30 AM	0	57	521	103362
12/13/18 1:00 AM	0	57	521	103362
12/13/18 1:30 AM	0	57	521	103362
12/13/18 2:00 AM	0	57	521	103362
12/13/18 2:30 AM	0	57	521	103362
12/13/18 3:00 AM	0	57	521	103362
12/13/18 3:30 AM	0	57	521	103362
12/13/18 4:00 AM	0	57	521	103362
12/13/18 4:30 AM	0	57	521	103362
12/13/18 5:00 AM	0	57	521	103362
12/13/18 5:30 AM	0	57	521	103362
12/13/18 6:00 AM	0	57	521	103362
12/13/18 6:30 AM	0	57	521	103362
12/13/18 7:00 AM	0	57	521	103362
12/13/18 7:30 AM	0	57	521	103362
12/13/18 8:00 AM	0	57	521	103362
12/13/18 8:30 AM	0	57	522	103362
12/13/18 9:00 AM	0	57	522	103362
12/13/18 9:30 AM	0	57	521	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/13/18 10:00 AM	0	57	521	103362
12/13/18 10:30 AM	0	57	521	103362
12/13/18 11:00 AM	0	57	521	103362
12/13/18 11:30 AM	0	57	521	103362
12/13/18 12:00 PM	0	57	521	103362
12/13/18 12:30 PM	0	57	521	103362
12/13/18 1:00 PM	0	57	521	103362
12/13/18 1:30 PM	0	57	521	103362
12/13/18 2:00 PM	0	57	521	103362
12/13/18 2:30 PM	0	57	521	103362
12/13/18 3:00 PM	0	57	521	103362
12/13/18 3:30 PM	0	57	521	103362
12/13/18 4:00 PM	0	57	521	103362
12/13/18 4:30 PM	0	57	521	103362
12/13/18 5:00 PM	0	57	521	103362
12/13/18 5:30 PM	0	57	521	103362
12/13/18 6:00 PM	0	57	521	103362
12/13/18 6:30 PM	0	57	521	103362
12/13/18 7:00 PM	0	57	521	103362
12/13/18 7:30 PM	0	57	521	103362
12/13/18 8:00 PM	0	57	521	103362
12/13/18 8:30 PM	0	57	521	103362
12/13/18 9:00 PM	0	57	521	103362
12/13/18 9:30 PM	0	57	521	103362
12/13/18 10:00 PM	0	57	521	103362
12/13/18 10:30 PM	0	57	521	103362
12/13/18 11:00 PM	0	57	521	103362
12/13/18 11:30 PM	0	57	521	103362
12/14/18 12:00 AM	0	57	521	103362
12/14/18 12:30 AM	0	57	521	103362
12/14/18 1:00 AM	0	57	521	103362
12/14/18 1:30 AM	0	57	521	103362
12/14/18 2:00 AM	0	57	521	103362
12/14/18 2:30 AM	0	57	521	103362
12/14/18 3:00 AM	0	57	521	103362
12/14/18 3:30 AM	0	57	521	103362
12/14/18 4:00 AM	0	57	521	103362
12/14/18 4:30 AM	0	57	521	103362
12/14/18 5:00 AM	0	57	521	103362
12/14/18 5:30 AM	0	57	521	103362
12/14/18 6:00 AM	0	57	521	103362
12/14/18 6:30 AM	0	57	521	103362
12/14/18 7:00 AM	0	57	521	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/14/18 7:30 AM	0	57	521	103362
12/14/18 8:00 AM	0	57	521	103362
12/14/18 8:30 AM	0	57	521	103362
12/14/18 9:00 AM	0	57	521	103362
12/14/18 9:30 AM	0	57	521	103362
12/14/18 10:00 AM	0	57	521	103362
12/14/18 10:30 AM	0	57	521	103362
12/14/18 11:00 AM	0	57	521	103362
12/14/18 11:30 AM	0	57	521	103362
12/14/18 12:00 PM	0	57	521	103362
12/14/18 12:30 PM	0	57	521	103362
12/14/18 1:00 PM	0	57	521	103362
12/14/18 1:30 PM	0	57	520	103362
12/14/18 2:00 PM	0	57	520	103362
12/14/18 2:30 PM	0	57	520	103362
12/14/18 3:00 PM	0	57	520	103362
12/14/18 3:30 PM	0	57	520	103362
12/14/18 4:00 PM	0	57	520	103362
12/14/18 4:30 PM	0	57	520	103362
12/14/18 5:00 PM	0	57	520	103362
12/14/18 5:30 PM	0	57	520	103362
12/14/18 6:00 PM	0	57	520	103362
12/14/18 6:30 PM	0	57	520	103362
12/14/18 7:00 PM	0	57	521	103362
12/14/18 7:30 PM	0	57	521	103362
12/14/18 8:00 PM	0	57	521	103362
12/14/18 8:30 PM	0	57	521	103362
12/14/18 9:00 PM	0	57	521	103362
12/14/18 9:30 PM	0	57	521	103362
12/14/18 10:00 PM	0	57	521	103362
12/14/18 10:30 PM	0	57	521	103362
12/14/18 11:00 PM	0	57	521	103362
12/14/18 11:30 PM	0	57	521	103362
12/15/18 12:00 AM	0	57	521	103362
12/15/18 12:30 AM	0	57	521	103362
12/15/18 1:00 AM	0	57	521	103362
12/15/18 1:30 AM	0	57	521	103362
12/15/18 2:00 AM	0	57	521	103362
12/15/18 2:30 AM	0	57	521	103362
12/15/18 3:00 AM	0	57	520	103362
12/15/18 3:30 AM	0	57	520	103362
12/15/18 4:00 AM	0	57	520	103362
12/15/18 4:30 AM	0	57	520	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/15/18 5:00 AM	0	57	520	103362
12/15/18 5:30 AM	0	57	520	103362
12/15/18 6:00 AM	0	57	520	103362
12/15/18 6:30 AM	0	57	520	103362
12/15/18 7:00 AM	0	57	520	103362
12/15/18 7:30 AM	0	57	520	103362
12/15/18 8:00 AM	0	57	520	103362
12/15/18 8:30 AM	0	58	521	103362
12/15/18 9:00 AM	0	58	521	103362
12/15/18 9:30 AM	0	58	521	103362
12/15/18 10:00 AM	0	58	521	103362
12/15/18 10:30 AM	0	58	521	103362
12/15/18 11:00 AM	0	58	520	103362
12/15/18 11:30 AM	0	58	520	103362
12/15/18 12:00 PM	0	58	520	103362
12/15/18 12:30 PM	0	58	520	103362
12/15/18 1:00 PM	0	58	520	103362
12/15/18 1:30 PM	0	58	520	103362
12/15/18 2:00 PM	0	58	520	103362
12/15/18 2:30 PM	0	58	520	103362
12/15/18 3:00 PM	0	58	520	103362
12/15/18 3:30 PM	0	58	520	103362
12/15/18 4:00 PM	0	58	520	103362
12/15/18 4:30 PM	0	58	520	103362
12/15/18 5:00 PM	0	58	520	103362
12/15/18 5:30 PM	0	58	520	103362
12/15/18 6:00 PM	0	58	520	103362
12/15/18 6:30 PM	0	58	520	103362
12/15/18 7:00 PM	0	58	520	103362
12/15/18 7:30 PM	0	58	520	103362
12/15/18 8:00 PM	0	58	520	103362
12/15/18 8:30 PM	0	58	520	103362
12/15/18 9:00 PM	0	58	520	103362
12/15/18 9:30 PM	0	58	520	103362
12/15/18 10:00 PM	0	58	520	103362
12/15/18 10:30 PM	0	58	520	103362
12/15/18 11:00 PM	0	58	520	103362
12/15/18 11:30 PM	0	58	520	103362
12/16/18 12:00 AM	0	58	520	103362
12/16/18 12:30 AM	0	58	520	103362
12/16/18 1:00 AM	0	58	520	103362
12/16/18 1:30 AM	0	58	520	103362
12/16/18 2:00 AM	0	58	520	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/16/18 2:30 AM	0	58	520	103362
12/16/18 3:00 AM	0	58	520	103362
12/16/18 3:30 AM	0	58	520	103362
12/16/18 4:00 AM	0	58	520	103362
12/16/18 4:30 AM	0	58	520	103362
12/16/18 5:00 AM	0	58	520	103362
12/16/18 5:30 AM	0	58	520	103362
12/16/18 6:00 AM	0	58	520	103362
12/16/18 6:30 AM	0	58	520	103362
12/16/18 7:00 AM	0	58	520	103362
12/16/18 7:30 AM	0	58	520	103362
12/16/18 8:00 AM	0	58	520	103362
12/16/18 8:30 AM	0	58	520	103362
12/16/18 9:00 AM	0	58	520	103362
12/16/18 9:30 AM	0	58	520	103362
12/16/18 10:00 AM	0	58	520	103362
12/16/18 10:30 AM	0	58	520	103362
12/16/18 11:00 AM	0	58	520	103362
12/16/18 11:30 AM	0	58	520	103362
12/16/18 12:00 PM	0	58	520	103362
12/16/18 12:30 PM	0	58	520	103362
12/16/18 1:00 PM	0	58	520	103362
12/16/18 1:30 PM	0	58	520	103362
12/16/18 2:00 PM	0	58	520	103362
12/16/18 2:30 PM	0	58	520	103362
12/16/18 3:00 PM	0	58	520	103362
12/16/18 3:30 PM	0	58	519	103362
12/16/18 4:00 PM	0	58	519	103362
12/16/18 4:30 PM	0	58	519	103362
12/16/18 5:00 PM	0	58	519	103362
12/16/18 5:30 PM	0	58	519	103362
12/16/18 6:00 PM	0	58	519	103362
12/16/18 6:30 PM	0	58	520	103362
12/16/18 7:00 PM	0	58	520	103362
12/16/18 7:30 PM	0	58	520	103362
12/16/18 8:00 PM	0	58	520	103362
12/16/18 8:30 PM	0	58	520	103362
12/16/18 9:00 PM	0	58	520	103362
12/16/18 9:30 PM	0	58	520	103362
12/16/18 10:00 PM	0	58	520	103362
12/16/18 10:30 PM	0	58	520	103362
12/16/18 11:00 PM	0	58	520	103362
12/16/18 11:30 PM	0	58	520	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/17/18 12:00 AM	0	58	520	103362
12/17/18 12:30 AM	0	58	520	103362
12/17/18 1:00 AM	0	58	520	103362
12/17/18 1:30 AM	0	58	520	103362
12/17/18 2:00 AM	0	58	520	103362
12/17/18 2:30 AM	0	58	520	103362
12/17/18 3:00 AM	0	58	520	103362
12/17/18 3:30 AM	0	58	520	103362
12/17/18 4:00 AM	0	58	520	103362
12/17/18 4:30 AM	0	58	520	103362
12/17/18 5:00 AM	0	58	520	103362
12/17/18 5:30 AM	0	58	520	103362
12/17/18 6:00 AM	0	58	520	103362
12/17/18 6:30 AM	0	58	520	103362
12/17/18 7:00 AM	0	58	519	103362
12/17/18 7:30 AM	0	58	520	103362
12/17/18 8:00 AM	0	58	520	103362
12/17/18 8:30 AM	0	58	520	103362
12/17/18 9:00 AM	0	58	520	103362
12/17/18 9:30 AM	0	58	520	103362
12/17/18 10:00 AM	0	58	520	103362
12/17/18 10:30 AM	0	58	520	103362
12/17/18 11:00 AM	0	58	520	103362
12/17/18 11:30 AM	0	58	520	103362
12/17/18 12:00 PM	0	58	519	103362
12/17/18 12:30 PM	0	58	519	103362
12/17/18 1:00 PM	0	58	519	103362
12/17/18 1:30 PM	0	58	519	103362
12/17/18 2:00 PM	0	58	519	103362
12/17/18 2:30 PM	0	58	519	103362
12/17/18 3:00 PM	0	58	519	103362
12/17/18 3:30 PM	0	58	519	103362
12/17/18 4:00 PM	0	58	519	103362
12/17/18 4:30 PM	0	58	519	103362
12/17/18 5:00 PM	0	58	519	103362
12/17/18 5:30 PM	0	58	519	103362
12/17/18 6:00 PM	0	58	519	103362
12/17/18 6:30 PM	0	58	519	103362
12/17/18 7:00 PM	0	58	519	103362
12/17/18 7:30 PM	0	58	519	103362
12/17/18 8:00 PM	0	58	519	103362
12/17/18 8:30 PM	0	58	519	103362
12/17/18 9:00 PM	0	58	519	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/17/18 9:30 PM	0	58	519	103362
12/17/18 10:00 PM	0	58	519	103362
12/17/18 10:30 PM	0	58	519	103362
12/17/18 11:00 PM	0	58	519	103362
12/17/18 11:30 PM	0	58	519	103362
12/18/18 12:00 AM	0	58	519	103362
12/18/18 12:30 AM	0	58	519	103362
12/18/18 1:00 AM	0	58	519	103362
12/18/18 1:30 AM	0	58	519	103362
12/18/18 2:00 AM	0	58	519	103362
12/18/18 2:30 AM	0	58	519	103362
12/18/18 3:00 AM	0	58	519	103362
12/18/18 3:30 AM	0	58	519	103362
12/18/18 4:00 AM	0	58	519	103362
12/18/18 4:30 AM	0	58	519	103362
12/18/18 5:00 AM	0	58	519	103362
12/18/18 5:30 AM	0	58	519	103362
12/18/18 6:00 AM	0	58	519	103362
12/18/18 6:30 AM	0	58	519	103362
12/18/18 7:00 AM	0	58	519	103362
12/18/18 7:30 AM	0	58	519	103362
12/18/18 8:00 AM	0	58	519	103362
12/18/18 8:30 AM	0	58	520	103362
12/18/18 9:00 AM	0	58	520	103362
12/18/18 9:30 AM	0	58	519	103362
12/18/18 10:00 AM	0	58	519	103362
12/18/18 10:30 AM	0	58	519	103362
12/18/18 11:00 AM	0	58	519	103362
12/18/18 11:30 AM	0	58	519	103362
12/18/18 12:00 PM	0	58	519	103362
12/18/18 12:30 PM	0	58	519	103362
12/18/18 1:00 PM	0	58	519	103362
12/18/18 1:30 PM	0	59	519	103362
12/18/18 2:00 PM	0	59	519	103362
12/18/18 2:30 PM	0	59	519	103362
12/18/18 3:00 PM	0	59	519	103362
12/18/18 3:30 PM	0	59	519	103362
12/18/18 4:00 PM	0	59	519	103362
12/18/18 4:30 PM	0	59	519	103362
12/18/18 5:00 PM	0	59	519	103362
12/18/18 5:30 PM	0	59	519	103362
12/18/18 6:00 PM	0	59	519	103362
12/18/18 6:30 PM	0	59	519	103362



### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/18/18 7:00 PM	0	59	519	103362
12/18/18 7:30 PM	0	59	519	103362
12/18/18 8:00 PM	0	59	519	103362
12/18/18 8:30 PM	0	59	519	103362
12/18/18 9:00 PM	0	59	519	103362
12/18/18 9:30 PM	0	59	519	103362
12/18/18 10:00 PM	0	59	519	103362
12/18/18 10:30 PM	0	59	519	103362
12/18/18 11:00 PM	0	59	519	103362
12/18/18 11:30 PM	0	59	519	103362
12/19/18 12:00 AM	0	59	519	103362
12/19/18 12:30 AM	0	59	519	103362
12/19/18 1:00 AM	0	59	519	103362
12/19/18 1:30 AM	0	59	519	103362
12/19/18 2:00 AM	0	59	519	103362
12/19/18 2:30 AM	0	59	519	103362
12/19/18 3:00 AM	0	59	519	103362
12/19/18 3:30 AM	0	59	519	103362
12/19/18 4:00 AM	0	59	519	103362
12/19/18 4:30 AM	0	59	519	103362
12/19/18 5:00 AM	0	59	519	103362
12/19/18 5:30 AM	0	59	519	103362
12/19/18 6:00 AM	0	59	519	103362
12/19/18 6:30 AM	0	59	519	103362
12/19/18 7:00 AM	0	59	519	103362
12/19/18 7:30 AM	0	59	519	103362
12/19/18 8:00 AM	0	59	519	103362
12/19/18 8:30 AM	0	59	519	103362
12/19/18 9:00 AM	0	59	519	103362
12/19/18 9:30 AM	0	59	519	103362
12/19/18 10:00 AM	0	59	519	103362
12/19/18 10:30 AM	0	59	519	103362
12/19/18 11:00 AM	0	59	519	103362
12/19/18 11:30 AM	0	59	519	103362
12/19/18 12:00 PM	0	59	519	103362
12/19/18 12:30 PM	0	59	519	103362
12/19/18 1:00 PM	0	59	519	103362
12/19/18 1:30 PM	0	59	519	103362
12/19/18 2:00 PM	0	59	519	103362
12/19/18 2:30 PM	0	59	519	103362
12/19/18 3:00 PM	0	59	519	103362
12/19/18 3:30 PM	0	59	518	103362
12/19/18 4:00 PM	0	59	518	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/19/18 4:30 PM	0	59	518	103362
12/19/18 5:00 PM	0	59	518	103362
12/19/18 5:30 PM	0	59	518	103362
12/19/18 6:00 PM	0	59	518	103362
12/19/18 6:30 PM	0	59	519	103362
12/19/18 7:00 PM	0	59	519	103362
12/19/18 7:30 PM	0	59	518	103362
12/19/18 8:00 PM	0	59	518	103362
12/19/18 8:30 PM	0	59	518	103362
12/19/18 9:00 PM	0	59	518	103362
12/19/18 9:30 PM	0	59	518	103362
12/19/18 10:00 PM	0	59	518	103362
12/19/18 10:30 PM	0	59	518	103362
12/19/18 11:00 PM	0	59	518	103362
12/19/18 11:30 PM	0	59	518	103362
12/20/18 12:00 AM	0	59	518	103362
12/20/18 12:30 AM	0	59	518	103362
12/20/18 1:00 AM	0	59	518	103362
12/20/18 1:30 AM	0	59	518	103362
12/20/18 2:00 AM	0	59	518	103362
12/20/18 2:30 AM	0	59	518	103362
12/20/18 3:00 AM	0	59	518	103362
12/20/18 3:30 AM	0	59	518	103362
12/20/18 4:00 AM	0	59	518	103362
12/20/18 4:30 AM	0	59	518	103362
12/20/18 5:00 AM	0	59	518	103362
12/20/18 5:30 AM	0	59	518	103362
12/20/18 6:00 AM	0	59	518	103362
12/20/18 6:30 AM	0	59	518	103362
12/20/18 7:00 AM	0	59	518	103362
12/20/18 7:30 AM	0	59	518	103362
12/20/18 8:00 AM	0	59	519	103362
12/20/18 8:30 AM	0	59	519	103362
12/20/18 9:00 AM	0	59	519	103362
12/20/18 9:30 AM	0	59	519	103362
12/20/18 10:00 AM	0	59	519	103362
12/20/18 10:30 AM	0	59	519	103362
12/20/18 11:00 AM	0	59	518	103362
12/20/18 11:30 AM	0	59	518	103362
12/20/18 12:00 PM	0	59	518	103362
12/20/18 12:30 PM	0	59	518	103362
12/20/18 1:00 PM	0	59	518	103362
12/20/18 1:30 PM	0	59	518	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
		<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/20/18 2:00 PM	0	59	518	103362
12/20/18 2:30 PM	0	59	518	103362
12/20/18 3:00 PM	0	59	518	103362
12/20/18 3:30 PM	0	59	518	103362
12/20/18 4:00 PM	0	59	518	103362
12/20/18 4:30 PM	0	59	518	103362
12/20/18 5:00 PM	0	59	518	103362
12/20/18 5:30 PM	0	59	518	103362
12/20/18 6:00 PM	0	59	518	103362
12/20/18 6:30 PM	0	59	518	103362
12/20/18 7:00 PM	0	59	518	103362
12/20/18 7:30 PM	0	59	518	103362
12/20/18 8:00 PM	0	59	518	103362
12/20/18 8:30 PM	0	59	518	103362
12/20/18 9:00 PM	0	59	518	103362
12/20/18 9:30 PM	0	59	518	103362
12/20/18 10:00 PM	0	59	518	103362
12/20/18 10:30 PM	0	59	518	103362
12/20/18 11:00 PM	0	59	518	103362
12/20/18 11:30 PM	0	59	518	103362
12/21/18 12:00 AM	0	59	518	103362
12/21/18 12:30 AM	0	59	518	103362
12/21/18 1:00 AM	0	59	518	103362
12/21/18 1:30 AM	0	59	518	103362
12/21/18 2:00 AM	0	59	518	103362
12/21/18 2:30 AM	0	59	518	103362
12/21/18 3:00 AM	0	59	518	103362
12/21/18 3:30 AM	0	59	518	103362
12/21/18 4:00 AM	0	59	518	103362
12/21/18 4:30 AM	0	59	518	103362
12/21/18 5:00 AM	0	59	518	103362
12/21/18 5:30 AM	0	59	518	103362
12/21/18 6:00 AM	0	59	518	103362
12/21/18 6:30 AM	0	59	518	103362
12/21/18 7:00 AM	0	59	518	103362
12/21/18 7:30 AM	0	59	518	103362
12/21/18 8:00 AM	0	59	518	103362
12/21/18 8:30 AM	0	59	518	103362
12/21/18 9:00 AM	0	59	518	103362
12/21/18 9:30 AM	0	59	518	103362
12/21/18 10:00 AM	0	59	518	103362
12/21/18 10:30 AM	0	59	518	103362
12/21/18 11:00 AM	0	59	518	103362

### Injection Well Operations Information

	<u>Flowrate</u>	<u>Casing</u> <u>Pressure</u>	<u>Injection</u> <u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/21/18 11:30 AM	0	59	518	103362
12/21/18 12:00 PM	0	59	518	103362
12/21/18 12:30 PM	0	59	518	103362
12/21/18 1:00 PM	0	59	518	103362
12/21/18 1:30 PM	0	59	518	103362
12/21/18 2:00 PM	0	59	518	103362
12/21/18 2:30 PM	0	59	518	103362
12/21/18 3:00 PM	0	59	518	103362
12/21/18 3:30 PM	0	59	518	103362
12/21/18 4:00 PM	0	59	518	103362
12/21/18 4:30 PM	0	59	518	103362
12/21/18 5:00 PM	0	59	518	103362
12/21/18 5:30 PM	0	59	518	103362
12/21/18 6:00 PM	0	59	518	103362
12/21/18 6:30 PM	0	59	518	103362
12/21/18 7:00 PM	0	59	518	103362
12/21/18 7:30 PM	0	59	518	103362
12/21/18 8:00 PM	0	59	518	103362
12/21/18 8:30 PM	0	59	518	103362
12/21/18 9:00 PM	0	59	518	103362
12/21/18 9:30 PM	0	59	518	103362
12/21/18 10:00 PM	0	59	518	103362
12/21/18 10:30 PM	0	59	518	103362
12/21/18 11:00 PM	0	59	518	103362
12/21/18 11:30 PM	0	59	518	103362
12/22/18 12:00 AM	0	59	518	103362
12/22/18 12:30 AM	0	59	518	103362
12/22/18 1:00 AM	0	59	518	103362
12/22/18 1:30 AM	0	59	518	103362
12/22/18 2:00 AM	0	59	518	103362
12/22/18 2:30 AM	0	59	518	103362
12/22/18 3:00 AM	0	59	518	103362
12/22/18 3:30 AM	0	59	518	103362
12/22/18 4:00 AM	0	59	518	103362
12/22/18 4:30 AM	0	59	518	103362
12/22/18 5:00 AM	0	59	518	103362
12/22/18 5:30 AM	0	59	518	103362
12/22/18 6:00 AM	0	59	518	103362
12/22/18 6:30 AM	0	59	518	103362
12/22/18 7:00 AM	0	59	518	103362
12/22/18 7:30 AM	0	59	518	103362
12/22/18 8:00 AM	0	59	518	103362
12/22/18 8:30 AM	0	59	518	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/22/18 9:00 AM	0	59	518	103362
12/22/18 9:30 AM	0	59	518	103362
12/22/18 10:00 AM	0	59	518	103362
12/22/18 10:30 AM	0	59	518	103362
12/22/18 11:00 AM	0	59	518	103362
12/22/18 11:30 AM	0	59	518	103362
12/22/18 12:00 PM	0	59	517	103362
12/22/18 12:30 PM	0	59	517	103362
12/22/18 1:00 PM	0	59	518	103362
12/22/18 1:30 PM	0	59	517	103362
12/22/18 2:00 PM	0	60	517	103362
12/22/18 2:30 PM	0	60	517	103362
12/22/18 3:00 PM	0	60	517	103362
12/22/18 3:30 PM	0	60	517	103362
12/22/18 4:00 PM	0	60	517	103362
12/22/18 4:30 PM	0	60	517	103362
12/22/18 5:00 PM	0	60	517	103362
12/22/18 5:30 PM	0	60	517	103362
12/22/18 6:00 PM	0	60	517	103362
12/22/18 6:30 PM	0	60	517	103362
12/22/18 7:00 PM	0	60	517	103362
12/22/18 7:30 PM	0	60	517	103362
12/22/18 8:00 PM	0	60	517	103362
12/22/18 8:30 PM	0	60	517	103362
12/22/18 9:00 PM	0	60	517	103362
12/22/18 9:30 PM	0	60	517	103362
12/22/18 10:00 PM	0	60	517	103362
12/22/18 10:30 PM	0	60	517	103362
12/22/18 11:00 PM	0	60	517	103362
12/22/18 11:30 PM	0	60	517	103362
12/23/18 12:00 AM	0	60	517	103362
12/23/18 12:30 AM	0	60	517	103362
12/23/18 1:00 AM	0	60	517	103362
12/23/18 1:30 AM	0	60	517	103362
12/23/18 2:00 AM	0	60	517	103362
12/23/18 2:30 AM	0	60	517	103362
12/23/18 3:00 AM	0	60	517	103362
12/23/18 3:30 AM	0	60	517	103362
12/23/18 4:00 AM	0	60	517	103362
12/23/18 4:30 AM	0	60	517	103362
12/23/18 5:00 AM	0	60	517	103362
12/23/18 5:30 AM	0	60	517	103362
12/23/18 6:00 AM	0	60	517	103362

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> (gpm)	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> (bbls)
		<u>Pressure</u> (psi)	<u>Pressure</u> (psi)	
12/23/18 6:30 AM	0	60	517	103362
12/23/18 7:00 AM	0	60	517	103362
12/23/18 7:30 AM	0	60	517	103362
12/23/18 8:00 AM	0	60	517	103362
12/23/18 8:30 AM	0	60	517	103362
12/23/18 9:00 AM	0	60	517	103362
12/23/18 9:30 AM	0	60	517	103362
12/23/18 10:00 AM	0	60	517	103362
12/23/18 10:30 AM	0	60	517	103362
12/23/18 11:00 AM	0	60	517	103362
12/23/18 11:30 AM	0	60	517	103362
12/23/18 12:00 PM	0	60	518	103362
12/23/18 12:30 PM	0	60	518	103362
12/23/18 1:00 PM	0	60	517	103362
12/23/18 1:30 PM	0	60	517	103362
12/23/18 2:00 PM	0	60	517	103362
12/23/18 2:30 PM	0	60	517	103362
12/23/18 3:00 PM	0	60	517	103362
12/23/18 3:30 PM	0	60	517	103362
12/23/18 4:00 PM	0	60	517	103362
12/23/18 4:30 PM	0	60	517	103362
12/23/18 5:00 PM	0	60	517	103362
12/23/18 5:30 PM	0	60	517	103362
12/23/18 6:00 PM	0	60	517	103362
12/23/18 6:30 PM	0	60	517	103362
12/23/18 7:00 PM	0	60	517	103362
12/23/18 7:30 PM	0	60	517	103362
12/23/18 8:00 PM	0	60	517	103362
12/23/18 8:30 PM	0	60	517	103362
12/23/18 9:00 PM	0	60	517	103362
12/23/18 9:30 PM	0	60	517	103362
12/23/18 10:00 PM	0	60	517	103362
12/23/18 10:30 PM	0	60	517	103362
12/23/18 11:00 PM	0	60	517	103362
12/23/18 11:30 PM	0	60	517	103362
12/24/18 12:00 AM	0	60	517	103362
12/24/18 12:30 AM	0	60	517	103362
12/24/18 1:00 AM	0	60	517	103362
12/24/18 1:30 AM	0	60	517	103362
12/24/18 2:00 AM	0	60	517	103362
12/24/18 2:30 AM	0	60	517	103362
12/24/18 3:00 AM	0	60	517	103362
12/24/18 3:30 AM	0	60	517	103362

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/24/18 4:00 AM	0	60	517	103362
12/24/18 4:30 AM	0	60	517	103362
12/24/18 5:00 AM	0	60	517	103362
12/24/18 5:30 AM	0	60	517	103362
12/24/18 6:00 AM	0	60	517	103362
12/24/18 6:30 AM	0	60	517	103362
12/24/18 7:00 AM	0	60	517	103362
12/24/18 7:30 AM	0	60	517	103362
12/24/18 8:00 AM	0	60	517	103362
12/24/18 8:30 AM	0	60	517	103362
12/24/18 9:00 AM	0	60	517	103362
12/24/18 9:30 AM	0	60	517	103362
12/24/18 10:00 AM	0	60	517	103362
12/24/18 10:30 AM	0	60	517	103362
12/24/18 11:00 AM	0	60	517	103362
12/24/18 11:30 AM	0	60	517	103362
12/24/18 12:00 PM	0	60	517	103362
12/24/18 12:30 PM	0	60	517	103362
12/24/18 1:00 PM	0	60	517	103362
12/24/18 1:30 PM	0	60	517	103362
12/24/18 2:00 PM	0	60	517	103362
12/24/18 2:30 PM	0	60	517	103362
12/24/18 3:00 PM	0	60	517	103362
12/24/18 3:30 PM	0	60	517	103362
12/24/18 4:00 PM	0	60	516	103362
12/24/18 4:30 PM	0	60	516	103362
12/24/18 5:00 PM	0	60	516	103362
12/24/18 5:30 PM	0	60	517	103362
12/24/18 6:00 PM	0	60	517	103362
12/24/18 6:30 PM	0	60	517	103362
12/24/18 7:00 PM	0	60	517	103362
12/24/18 7:30 PM	0	60	517	103362
12/24/18 8:00 PM	0	60	517	103362
12/24/18 8:30 PM	0	60	517	103362
12/24/18 9:00 PM	0	60	517	103362
12/24/18 9:30 PM	0	60	517	103362
12/24/18 10:00 PM	0	60	517	103362
12/24/18 10:30 PM	0	60	517	103362
12/24/18 11:00 PM	0	60	517	103362
12/24/18 11:30 PM	0	60	517	103362
12/25/18 12:00 AM	0	60	517	103362
12/25/18 12:30 AM	0	60	517	103362
12/25/18 1:00 AM	0	60	517	103362

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing Pressure</u>	<u>Injection Pressure</u>	<u>Totalizer (bbls)</u>
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	
12/25/18 1:30 AM	0	60	517	103362
12/25/18 2:00 AM	0	60	517	103362
12/25/18 2:30 AM	0	60	517	103362
12/25/18 3:00 AM	0	60	517	103362
12/25/18 3:30 AM	0	60	517	103362
12/25/18 4:00 AM	0	60	517	103362
12/25/18 4:30 AM	0	60	517	103362
12/25/18 5:00 AM	0	60	517	103362
12/25/18 5:30 AM	0	60	517	103362
12/25/18 6:00 AM	0	60	517	103362
12/25/18 6:30 AM	0	60	517	103362
12/25/18 7:00 AM	0	60	517	103362
12/25/18 7:30 AM	0	60	517	103362
12/25/18 8:00 AM	0	60	517	103362
12/25/18 8:30 AM	0	60	517	103362
12/25/18 9:00 AM	0	60	517	103362
12/25/18 9:30 AM	0	60	517	103362
12/25/18 10:00 AM	0	60	517	103362
12/25/18 10:30 AM	0	60	517	103362
12/25/18 11:00 AM	0	60	516	103362
12/25/18 11:30 AM	0	60	517	103362
12/25/18 12:00 PM	0	60	516	103362
12/25/18 12:30 PM	0	60	516	103362
12/25/18 1:00 PM	0	60	516	103362
12/25/18 1:30 PM	0	60	516	103362
12/25/18 2:00 PM	0	60	517	103362
12/25/18 2:30 PM	0	60	517	103362
12/25/18 3:00 PM	0	60	516	103362
12/25/18 3:30 PM	0	60	517	103362
12/25/18 4:00 PM	0	60	516	103362
12/25/18 4:30 PM	0	60	516	103362
12/25/18 5:00 PM	0	60	516	103362
12/25/18 5:30 PM	0	60	516	103362
12/25/18 6:00 PM	0	60	516	103362
12/25/18 6:30 PM	0	60	516	103362
12/25/18 7:00 PM	0	60	516	103362
12/25/18 7:30 PM	0	60	516	103362
12/25/18 8:00 PM	0	60	517	103362
12/25/18 8:30 PM	0	60	517	103362
12/25/18 9:00 PM	0	60	516	103362
12/25/18 9:30 PM	0	60	516	103362
12/25/18 10:00 PM	0	60	516	103362
12/25/18 10:30 PM	0	60	516	103362



### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/25/18 11:00 PM	0	60	516	103362
12/25/18 11:30 PM	0	60	516	103362
12/26/18 12:00 AM	0	60	516	103362
12/26/18 12:30 AM	0	60	516	103362
12/26/18 1:00 AM	0	60	516	103362
12/26/18 1:30 AM	0	60	516	103362
12/26/18 2:00 AM	0	60	516	103362
12/26/18 2:30 AM	0	60	516	103362
12/26/18 3:00 AM	0	60	516	103362
12/26/18 3:30 AM	0	60	516	103362
12/26/18 4:00 AM	0	60	516	103362
12/26/18 4:30 AM	0	60	516	103362
12/26/18 5:00 AM	0	60	516	103362
12/26/18 5:30 AM	0	60	516	103362
12/26/18 6:00 AM	0	60	516	103362
12/26/18 6:30 AM	0	60	516	103362
12/26/18 7:00 AM	0	60	516	103362
12/26/18 7:30 AM	0	60	516	103362
12/26/18 8:00 AM	0	60	516	103362
12/26/18 8:30 AM	0	60	516	103362
12/26/18 9:00 AM	25	63	562	103362
12/26/18 9:30 AM	30	Bad	706	103385
12/26/18 10:00 AM	30	Bad	738	103406
12/26/18 10:30 AM	30	Bad	760	103428
12/26/18 11:00 AM	30	Bad	778	103449
12/26/18 11:30 AM	29	-2	792	103470
12/26/18 12:00 PM	30	-3	806	103491
12/26/18 12:30 PM	30	-4	817	103512
12/26/18 1:00 PM	30	-5	826	103533
12/26/18 1:30 PM	30	-5	834	103554
12/26/18 2:00 PM	29	Bad	842	103575
12/26/18 2:30 PM	29	Bad	848	103595
12/26/18 3:00 PM	29	Bad	854	103616
12/26/18 3:30 PM	28	Bad	860	103637
12/26/18 4:00 PM	29	Bad	867	103658
12/26/18 4:30 PM	29	Bad	873	103679
12/26/18 5:00 PM	29	Bad	879	103699
12/26/18 5:30 PM	29	Bad	885	103720
12/26/18 6:00 PM	28	Bad	889	103741
12/26/18 6:30 PM	29	Bad	894	103762
12/26/18 7:00 PM	29	Bad	899	103782
12/26/18 7:30 PM	29	Bad	903	103803
12/26/18 8:00 PM	29	Bad	907	103823

### Injection Well Operations Information

		<u>Casing</u>	<u>Injection</u>	
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	<u>Totalizer</u>
<u>Date</u>	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/26/18 8:30 PM	29	Bad	911	103844
12/26/18 9:00 PM	29	Bad	914	103864
12/26/18 9:30 PM	29	Bad	918	103885
12/26/18 10:00 PM	28	Bad	921	103905
12/26/18 10:30 PM	29	Bad	925	103926
12/26/18 11:00 PM	30	Bad	929	103947
12/26/18 11:30 PM	29	Bad	934	103967
12/27/18 12:00 AM	29	Bad	939	103988
12/27/18 12:30 AM	29	Bad	942	104008
12/27/18 1:00 AM	29	Bad	946	104029
12/27/18 1:30 AM	29	Bad	950	104050
12/27/18 2:00 AM	29	Bad	954	104070
12/27/18 2:30 AM	28	Bad	958	104091
12/27/18 3:00 AM	29	Bad	961	104111
12/27/18 3:30 AM	29	Bad	965	104132
12/27/18 4:00 AM	29	Bad	969	104152
12/27/18 4:30 AM	29	Bad	972	104173
12/27/18 5:00 AM	29	Bad	975	104193
12/27/18 5:30 AM	28	Bad	977	104213
12/27/18 6:00 AM	29	Bad	980	104234
12/27/18 6:30 AM	29	Bad	983	104254
12/27/18 7:00 AM	29	Bad	985	104274
12/27/18 7:30 AM	28	Bad	988	104294
12/27/18 8:00 AM	29	Bad	991	104314
12/27/18 8:30 AM	29	Bad	993	104335
12/27/18 9:00 AM	29	Bad	996	104355
12/27/18 9:30 AM	27	Bad	999	104375
12/27/18 10:00 AM	28	Bad	1001	104395
12/27/18 10:30 AM	28	Bad	1003	104414
12/27/18 11:00 AM	28	Bad	1005	104434
12/27/18 11:30 AM	29	Bad	1007	104454
12/27/18 12:00 PM	27	Bad	1009	104474
12/27/18 12:30 PM	27	Bad	1011	104494
12/27/18 1:00 PM	28	Bad	1013	104514
12/27/18 1:30 PM	28	-1	1015	104534
12/27/18 2:00 PM	28	-1	1017	104553
12/27/18 2:30 PM	27	-1	1019	104573
12/27/18 3:00 PM	26	-1	1023	104593
12/27/18 3:30 PM	28	-1	1026	104613
12/27/18 4:00 PM	29	-1	1028	104633
12/27/18 4:30 PM	28	-1	1031	104653
12/27/18 5:00 PM	28	-1	1032	104673
12/27/18 5:30 PM	27	-1	1034	104693

# Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/27/18 6:00 PM	28	-1	1036	104713
12/27/18 6:30 PM	29	-1	1036	104733
12/27/18 7:00 PM	28	-1	1039	104752
12/27/18 7:30 PM	27	-1	1041	104772
12/27/18 8:00 PM	29	-1	1045	104792
12/27/18 8:30 PM	28	-1	1048	104812
12/27/18 9:00 PM	28	-1	1051	104832
12/27/18 9:30 PM	28	-1	1054	104852
12/27/18 10:00 PM	27	-1	1056	104872
12/27/18 10:30 PM	28	-1	1059	104892
12/27/18 11:00 PM	28	-1	1061	104912
12/27/18 11:30 PM	27	-1	1061	104932
12/28/18 12:00 AM	28	-1	1062	104952
12/28/18 12:30 AM	27	-1	1064	104972
12/28/18 1:00 AM	28	-1	1067	104992
12/28/18 1:30 AM	29	-2	1068	105012
12/28/18 2:00 AM	29	-2	1070	105032
12/28/18 2:30 AM	28	-2	1073	105052
12/28/18 3:00 AM	28	-2	1074	105072
12/28/18 3:30 AM	29	-2	1077	105092
12/28/18 4:00 AM	28	-2	1079	105112
12/28/18 4:30 AM	29	-2	1082	105132
12/28/18 5:00 AM	29	-2	1083	105152
12/28/18 5:30 AM	28	-2	1085	105172
12/28/18 6:00 AM	28	-2	1087	105192
12/28/18 6:30 AM	28	-2	1089	105212
12/28/18 7:00 AM	28	-2	1091	105232
12/28/18 7:30 AM	27	-2	1093	105251
12/28/18 8:00 AM	27	-2	1095	105271
12/28/18 8:30 AM	29	-2	1097	105291
12/28/18 9:00 AM	28	-2	1099	105311
12/28/18 9:30 AM	28	-2	1101	105331
12/28/18 10:00 AM	26	-2	1103	105350
12/28/18 10:30 AM	27	-2	1105	105370
12/28/18 11:00 AM	27	-2	1106	105390
12/28/18 11:30 AM	28	-2	1108	105410
12/28/18 12:00 PM	28	-2	1110	105429
12/28/18 12:30 PM	0	-2	985	105444
12/28/18 1:00 PM	0	-1	910	105444
12/28/18 1:30 PM	0	0	882	105444
12/28/18 2:00 PM	0	0	862	105444
12/28/18 2:30 PM	0	1	846	105444
12/28/18 3:00 PM	0	2	833	105444

# Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u>
	<u>(gpm)</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>	
12/28/18 3:30 PM	0	2	821	105444
12/28/18 4:00 PM	0	3	812	105444
12/28/18 4:30 PM	0	4	803	105444
12/28/18 5:00 PM	0	4	795	105444
12/28/18 5:30 PM	0	5	788	105444
12/28/18 6:00 PM	0	6	782	105444
12/28/18 6:30 PM	0	6	776	105444
12/28/18 7:00 PM	0	7	771	105444
12/28/18 7:30 PM	0	8	766	105444
12/28/18 8:00 PM	0	8	761	105444
12/28/18 8:30 PM	0	9	757	105444
12/28/18 9:00 PM	0	10	753	105444
12/28/18 9:30 PM	0	10	749	105444
12/28/18 10:00 PM	0	11	745	105444
12/28/18 10:30 PM	0	11	742	105444
12/28/18 11:00 PM	0	12	738	105444
12/28/18 11:30 PM	0	13	735	105444
12/29/18 12:00 AM	0	13	732	105444
12/29/18 12:30 AM	0	14	729	105444
12/29/18 1:00 AM	0	14	726	105444
12/29/18 1:30 AM	0	15	724	105444
12/29/18 2:00 AM	0	15	721	105444
12/29/18 2:30 AM	0	16	719	105444
12/29/18 3:00 AM	0	16	716	105444
12/29/18 3:30 AM	0	17	714	105444
12/29/18 4:00 AM	0	18	712	105444
12/29/18 4:30 AM	0	18	710	105444
12/29/18 5:00 AM	0	19	707	105444
12/29/18 5:30 AM	0	19	705	105444
12/29/18 6:00 AM	0	20	703	105444
12/29/18 6:30 AM	0	20	702	105444
12/29/18 7:00 AM	0	21	700	105444
12/29/18 7:30 AM	0	21	698	105444
12/29/18 8:00 AM	0	22	696	105444
12/29/18 8:30 AM	0	22	695	105444
12/29/18 9:00 AM	0	23	693	105444
12/29/18 9:30 AM	0	23	692	105444
12/29/18 10:00 AM	0	24	690	105444
12/29/18 10:30 AM	0	24	688	105444
12/29/18 11:00 AM	0	25	687	105444
12/29/18 11:30 AM	0	25	685	105444
12/29/18 12:00 PM	0	26	684	105444
12/29/18 12:30 PM	0	27	682	105444

### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/29/18 1:00 PM	0	27	681	105444
12/29/18 1:30 PM	0	28	680	105444
12/29/18 2:00 PM	0	28	678	105444
12/29/18 2:30 PM	0	29	677	105444
12/29/18 3:00 PM	0	29	676	105444
12/29/18 3:30 PM	0	30	675	105444
12/29/18 4:00 PM	0	30	673	105444
12/29/18 4:30 PM	0	31	672	105444
12/29/18 5:00 PM	0	31	671	105444
12/29/18 5:30 PM	0	32	670	105444
12/29/18 6:00 PM	0	32	669	105444
12/29/18 6:30 PM	0	33	668	105444
12/29/18 7:00 PM	0	33	667	105444
12/29/18 7:30 PM	0	34	666	105444
12/29/18 8:00 PM	0	34	665	105444
12/29/18 8:30 PM	0	35	664	105444
12/29/18 9:00 PM	0	35	663	105444
12/29/18 9:30 PM	0	36	662	105444
12/29/18 10:00 PM	0	36	661	105444
12/29/18 10:30 PM	0	36	660	105444
12/29/18 11:00 PM	0	37	659	105444
12/29/18 11:30 PM	0	37	658	105444
12/30/18 12:00 AM	0	38	658	105444
12/30/18 12:30 AM	0	38	657	105444
12/30/18 1:00 AM	0	39	656	105444
12/30/18 1:30 AM	0	39	655	105444
12/30/18 2:00 AM	0	40	654	105444
12/30/18 2:30 AM	0	40	653	105444
12/30/18 3:00 AM	0	40	653	105444
12/30/18 3:30 AM	0	41	652	105444
12/30/18 4:00 AM	0	41	651	105444
12/30/18 4:30 AM	0	42	650	105444
12/30/18 5:00 AM	0	42	650	105444
12/30/18 5:30 AM	0	42	649	105444
12/30/18 6:00 AM	0	43	648	105444
12/30/18 6:30 AM	0	43	647	105444
12/30/18 7:00 AM	0	44	647	105444
12/30/18 7:30 AM	0	44	646	105444
12/30/18 8:00 AM	0	45	645	105444
12/30/18 8:30 AM	0	45	645	105444
12/30/18 9:00 AM	0	45	644	105444
12/30/18 9:30 AM	0	46	643	105444
12/30/18 10:00 AM	0	46	643	105444

### Injection Well Operations Information

<u>Date</u>	<u>Flowrate</u> <u>(gpm)</u>	<u>Casing</u>	<u>Injection</u>	<u>Totalizer</u> <u>(bbls)</u>
		<u>Pressure</u> <u>(psi)</u>	<u>Pressure</u> <u>(psi)</u>	
12/30/18 10:30 AM	0	47	642	105444
12/30/18 11:00 AM	0	47	642	105444
12/30/18 11:30 AM	0	48	641	105444
12/30/18 12:00 PM	0	48	640	105444
12/30/18 12:30 PM	0	48	640	105444
12/30/18 1:00 PM	0	49	639	105444
12/30/18 1:30 PM	0	49	638	105444
12/30/18 2:00 PM	0	50	638	105444
12/30/18 2:30 PM	0	50	637	105444
12/30/18 3:00 PM	0	51	636	105444
12/30/18 3:30 PM	0	51	636	105444
12/30/18 4:00 PM	0	52	635	105444
12/30/18 4:30 PM	0	52	635	105444
12/30/18 5:00 PM	0	52	634	105444
12/30/18 5:30 PM	0	53	633	105444
12/30/18 6:00 PM	0	53	633	105444
12/30/18 6:30 PM	0	54	633	105444
12/30/18 7:00 PM	0	54	632	105444
12/30/18 7:30 PM	0	54	632	105444
12/30/18 8:00 PM	0	55	631	105444
12/30/18 8:30 PM	0	55	631	105444
12/30/18 9:00 PM	0	55	630	105444
12/30/18 9:30 PM	0	55	630	105444
12/30/18 10:00 PM	0	56	629	105444
12/30/18 10:30 PM	0	56	629	105444
12/30/18 11:00 PM	0	56	628	105444
12/30/18 11:30 PM	0	56	628	105444
12/31/18 12:00 AM	0	56	627	105444
12/31/18 12:30 AM	0	56	627	105444
12/31/18 1:00 AM	0	57	627	105444
12/31/18 1:30 AM	0	57	626	105444
12/31/18 2:00 AM	0	57	626	105444
12/31/18 2:30 AM	0	57	625	105444
12/31/18 3:00 AM	0	57	625	105444
12/31/18 3:30 AM	0	57	624	105444
12/31/18 4:00 AM	0	57	624	105444
12/31/18 4:30 AM	0	58	624	105444
12/31/18 5:00 AM	0	58	623	105444
12/31/18 5:30 AM	0	58	623	105444
12/31/18 6:00 AM	0	58	622	105444
12/31/18 6:30 AM	0	58	622	105444
12/31/18 7:00 AM	0	58	621	105444
12/31/18 7:30 AM	0	59	621	105444

### Injection Well Operations Information

<u>Date</u>	<u>Casing</u>		<u>Injection</u>	<u>Totalizer</u>
	<u>Flowrate</u>	<u>Pressure</u>	<u>Pressure</u>	
	<u>(gpm)</u>	<u>(psi)</u>	<u>(psi)</u>	<u>(bbls)</u>
12/31/18 8:00 AM	0	59	621	105444
12/31/18 8:30 AM	0	59	620	105444
12/31/18 9:00 AM	0	59	620	105444
12/31/18 9:30 AM	0	59	620	105444
12/31/18 10:00 AM	0	60	619	105444
12/31/18 10:30 AM	0	60	619	105444
12/31/18 11:00 AM	0	60	618	105444
12/31/18 11:30 AM	0	61	618	105444
12/31/18 12:00 PM	0	61	618	105444
12/31/18 12:30 PM	0	61	617	105444
12/31/18 1:00 PM	0	62	617	105444
12/31/18 1:30 PM	0	62	616	105444
12/31/18 2:00 PM	0	62	616	105444
12/31/18 2:30 PM	0	63	616	105444
12/31/18 3:00 PM	0	63	615	105444
12/31/18 3:30 PM	0	63	615	105444
12/31/18 4:00 PM	0	64	615	105444
12/31/18 4:30 PM	0	64	614	105444
12/31/18 5:00 PM	0	64	614	105444
12/31/18 5:30 PM	0	65	614	105444
12/31/18 6:00 PM	0	65	613	105444
12/31/18 6:30 PM	0	65	613	105444
12/31/18 7:00 PM	0	66	613	105444
12/31/18 7:30 PM	0	66	612	105444
12/31/18 8:00 PM	0	66	612	105444
12/31/18 8:30 PM	0	67	612	105444
12/31/18 9:00 PM	0	67	611	105444
12/31/18 9:30 PM	0	67	611	105444
12/31/18 10:00 PM	0	67	611	105444
12/31/18 10:30 PM	0	67	610	105444
12/31/18 11:00 PM	0	68	610	105444
12/31/18 11:30 PM	0	68	610	105444

**Table 2**  
**Analytical Summary**

		Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
<b>Volatile Organic Compounds (mg/L)</b>							
D029	1,1-Dichloroethene	0.70	5	<0.70	<0.70	<0.20	<0.70
D028	1,2-Dichloroethane (EDC)	0.50	10	<0.50	<0.50	<0.20	<0.50
D027	1,4-Dichlorobenzene	7.5		<7.5	<7.5	<0.20	<7.5
D035	2-Butanone (MEK)	200		<200	<200	<2.0	<200
D018	Benzene	0.50	10	<0.50	<0.50	<0.20	<0.50
D019	Carbon Tetrachloride	0.50	10	<0.50	<0.50	<0.20	<0.50
D021	Chlorobenzene	100		<100	<100	<0.20	<100
D022	Chloroform	6.0	100	<6.0	<6.0	<0.20	<6.0
D033	Hexachlorobutadiene	0.50		<0.50	<0.50	<0.20	<0.50
D039	Tetrachloroethene (PCE)	0.70	20	<0.70	<0.70	<0.20	<0.70
D040	Trichloroethene (TCE)	0.50	100	<0.50	<0.50	<0.20	<0.50
D043	Vinyl chloride	0.20	1	<0.20	<0.20	<0.20	<0.20
<b>Semi-Volatile Organic Compounds (mg/L)</b>							
D027	1,4-Dichlorobenzene	7.5		<7.5	<7.5	<0.050	<7.5
D041	2,4,5-Trichlorophenol	400		<400	<400	<0.050	<400
D042	2,4,6-Trichlorophenol	2.0		<2.0	<2.0	<0.050	<2.0
D030	2,4-Dinitrotoluene	0.13		<0.13	<0.13	<0.050	<0.13
D023	2-Methylphenol (o-Cresol)	200		<200	<200	<0.050	<200
D024, D025	3+4-Methylphenol (m, p-Cresol)	200		<200	<200	<0.050	<200
D032	Hexachlorobenzene	0.13		<0.13	<0.13	<0.050	<0.13
D033	Hexachlorobutadiene	0.50		<0.50	<0.50	<0.050	<0.50
D034	Hexachloroethane	3.0		<3.0	<3.0	<0.050	<3.0
D036	Nitrobenzene	2.0		<2.0	<2.0	<0.050	<2.0
D037	Pentachlorophenol	100		<100	<100	<0.100	<100
D038	Pyridine	5.0		<5.0	<5.0	<0.050	<5.0
<b>General Chemistry (mg/L unless otherwise stated)</b>							
	Specific Conductance (umhos/cm)			4100	5400	2100	6600
	Bromide			3.2	4.8	1.5	6.6
	Chloride		250 *	1100	1400	140	1900
	Fluoride			<0.50	<0.50	<0.50	<2.0
	Nitrate + Nitrite as N			<0.50	<1.0	<0.50	<2.0
	Phosphorus, Orthophosphate (As P)			<2.5	<2.5	<2.5	<2.5
	Sulfate		600 *	100	<2.5	26	66
	Total Dissolved Solids		10,000	2940	3090	1300	4360
	pH (pH Units)			7.05	7.62	7.48	7.13
	Bicarbonate (As CaCO3)			488.3	1008	499.1	731.6
	Carbonate (As CaCO3)			<2.000	<2.00	<2.00	<2.00
	Total Alkalinity (as CaCO3)			488.3	1008	499.1	731.6
	Oxidation-Reduction Potential (mV)			18	200	24	84
	Specific Gravity			1.0020	1.0010	0.9999	0.9991
<b>Total Metals (mg/L)</b>							
D004	Arsenic	5.0		<5.0	<5.0	<0.020	<5.0
D005	Barium	100		<100	<100	0.44	<100
D006	Cadmium	1.0		<1.0	<1.0	<0.0020	<1.0
D007	Chromium	5.0		<5.0	<5.0	<0.0060	<5.0
D008	Lead	5.0		<5.0	<5.0	<0.0050	<5.0
D010	Selenium	1.0		<1.0	<1.0	<0.050	<1.0
D011	Silver	5.0		<5.0	<5.0	<0.0050	<5.0
D009	Mercury	0.2	0.002	<0.20	<0.00020	0.00045	<0.020
<b>Dissolved Metals (mg/L)</b>							
	Calcium		0.01	130	170	100	87
	Magnesium			47	56	26	61
	Potassium			13	17	4.1	22
	Sodium			690	920	330	1300
<b>Ignitability, Corrosivity, and Reactivity</b>							
D003	Reactive Cyanide (mg/L)			<0.005	0.0407	<0.0050	<0.0050
D003	Reactive Sulfide (mg/L)			<0.050	<0.050	<0.050	<0.050
D001	Ignitability (°F)	<140° F		>170	>170	>170	>170
D002	Corrosivity (ph Units)	<2 or >12.5	6-9	7.05	7.62	7.48	7.13
<b>Pesticides (mg/L)</b>							
	Chlordane	0.03		<0.030	<0.030	<0.010	<0.030
<b>Field Parameters</b>							
	Temperature (°F)			58.2	87.6	71.2	60.1

**Notes:**

\* = Screening level is to apply to dissolved phase result; therefore comparison is bias high.



## **APPENDIX A**

### **C-115 Monthly Reports**

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South Saint Francis Drive  
Santa Fe, NM 87505  
OPERATOR'S MONTHLY REPORT

District I  
1625 North French, Hobbs, NM 88241  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos, Aztec, NM 87410

2 Western Refining Southwest, Inc.										3 OGRID: 267595		4 01/2018				
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4						
INJECTION			PRODUCTION					DISPOSITION OF OIL, GAS, AND WATER								
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R APINo.	C O D E 1	Volume 9	Pressure 10	C O D E 2	Barrels of Oil/conden- sate produced 12	Barrels of water produced 13	MCF Gas Produced 14	Days Prod- uced 15	C O D E 3	Point of Disposition 17	Gas BTU or Oil API Gravity 18	Oil on hand at beginning of month 19	Volume (Bbls/mcf) 20	Transporter Ogrid 21	C O D E 4	Oil on hand at end of month 23
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747		248	710 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.  
3/8/10  
24 Kelly Robinson Env Supervisor Kelly.Robinson@caudavox.com 505-632-4166  
Signature Printed Name & Title E-Mail Address Date Phone Number

District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 87470

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive


Santa Fe, NM 87505

OPERATOR'S MONTHLY REPORT

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1 ☐ Amended Report

2 Western Refining Southwest, Inc.										3 OGRID: 267595		4 02/2018			
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4					
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.			INJECTION			PRODUCTION			DISPOSITION OF OIL, GAS, AND WATER						
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
C O D E 1	Volume 9	Pressure 10	C O D E 2	Barrels of Oil/conden- sate produced 12	Barrels of water produced 13	MCF Gas Produced 14	Days Prod- uced 15	C O D E 3	Point of Disposition 17	Gas BTU or Oil API Gravity 18	Oil on hand at beginning of month 19	Volume (Bbls/mcf) 20	Transporter Ogrid 21	C O D E 4	Oil on hand at end of month 23
316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	12756	1078 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.


 Signature  
 Env. Supervisor  
 Kelly Robinson  
 E-Mail Address  
 Kelly.Robinson@andevor.com  
 Date  
 3/8/18  
 Phone Number  
 505-632-4166

District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 86210

District III

1000 Rio Brazos, Aztec, NM 84710

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

**OPERATOR'S MONTHLY REPORT**

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1 ☐ Amended Report

2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 03/2018											
5 Address: PO Box 159 Bloomfield, NM 87413		6 Page 1 of 4													
7		INJECTION		PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & ULL-S-T-R API No.	Volume C O D E 1	Pressure C O D E 2	Barrels of Oil/conden- sate produced	Barrels of water produced	MCF Gas Produced	Days Prod- uced	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbls/mcf)	Transporter Ogrid	Oil on hand at end of month			
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	5471	1009 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24

*Kelly Robinson*  
Signature

Kelly Robinson Env. Sup.  
Printed Name & Title

Kelly.Robinson@canleaver.com  
E-Mail Address

Date

505-632-4166  
Phone Number

District I  
1625 North French, Hobbs, NM 88241  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos, Aztec, NM 87410

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South Saint Francis Drive  
Santa Fe, NM 87505  
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1 ☐ Amended Report

2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 4/2018												
5 Address: PO Box 159 Bloomfield, NM 87413		6 Page 1 of 4														
7		INJECTION		PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER								
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of Oil/conden- sate produced	13 Barrels of water produced	14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Transporter Ogrid	22 C O D E 4	23 Oil on hand at end of month
96435 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	I	3380	826 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24 Kelly Robinson Kelly Robinson Env. Supervisor Kelly.Robinson@audubon.com 505632-4166  
Signature Printed Name & Title E-Mail Address Date Phone Number

District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 84710

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South Saint Francis Drive

Santa Fe, NM 87505

OPERATOR'S MONTHLY REPORT

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Amended Report

2 Western Refining Southwest, Inc.										3 OGRID: 267595		4 5/2018			
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4					
7		INJECTION			PRODUCTION			DISPOSITION OF OIL, GAS, AND WATER							
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	Volume C O D E 1	Pressure C O D E 2	Barrels of Oil/conden- sate produced	Barrels of water produced	MCF Gas Produced	Days Produced	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbls/mcf)	Transporter Ogrid	Oil on hand at end of month			
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	4894	907													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

Signature: Kelly Robinson Printed Name & Title: Kelly Robinson Env. Supervisor E-Mail Address: Kelly.Robinson@andover.com Date: 5/5/2018 Phone Number: 505-632-4166



District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 84710

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

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2 Western Refining Southwest, Inc.										3 OGRID: 267595		4 6/2018			
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4					
7		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER						
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & U-I-S-T-R API No.	Volume C O D E 1	Pressure C O D E 2	Barrels of Oil/conden- sate produced	Barrels of water produced	MCF Gas Produced	Days Prod- uced	C O D E 3	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbls/mcf)	Transporter Ogrid	C O D E 4	Oil on hand at end of month	
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	67	701 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

*Kelly Robinson*  
Signature

Kelly Robinson Env. Supervisor  
Printed Name & Title

Kelly.Robinson@audubon.com  
E-Mail Address

505-632-4166  
Phone Number

7/19/13  
Date

2 Operator

3 OGRID

4 Month/Year

6 Page 2 of 4

**District I**

1625 North French, Hobbs, NM 88241

**District II**

811 S. First St., Artesia, NM 88210

**District III**

1000 Rio Brazos, Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

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2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 7/2018												
5 Address: PO Box 159 Bloomfield, NM 87413		6 Page 1 of 4														
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	INJECTION			PRODUCTION							DISPOSITION OF OIL, GAS, AND WATER					
	8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of Oil/conden- sate produced	13 Barrels of water produced	14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Transporter Ogrid	22 C O D E 4	23 Oil on hand at end of month
95436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	1	0	637 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24

*Kelly Robinson*  
Signature

*Kelly Robinson*  
Printed Name & Title

*Kelly Robinson*  
E-Mail Address

*Kelly.Robinson@caudex.com*  
Date

*7/31/13*  
Phone Number

*505-801-3616*



2 Western Refining Southwest, Inc.										3 OGRID: 267595				4 8/2018	
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4					
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R AP No.			INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER					
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
C O D E 1	Volume	Pressure	C O D E 2	Barrels of Oil/condensate produced	Barrels of water produced	MCF Gas Produced	Days Produced	C O D E 3	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbls/mcf)	Transporter Ogrid	C O D E 4	Oil on hand at end of month
316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	0	597 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24 Kelly Robinson

Kelly Robinson

Kelly Robinson

Supervisor

Supervisor

Supervisor

Printed Name & Title

E-Mail Address

Phone Number

9/4/18

Date


505-8015016

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South Saint Francis Drive  
Santa Fe, NM 87505  
OPERATOR'S MONTHLY REPORT

District I  
1625 North French, Hobbs, NM 88241  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos, Aztec, NM 84710

2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 9/2018		6 Page 1 of 4										
5 Address: PO Box 159 Bloomfield, NM 87413																
7		INJECTION			PRODUCTION			DISPOSITION OF OIL, GAS, AND WATER								
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of Oil/conden- sate produced	13 Barrels of water produced	14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Transporter Ogrid	22 C O D E 4	23 Oil on hand at end of month
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747		320	581 W													

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24  Kelly Robinson Env. Supervisor  
Signature Printed Name & Title  
11/5/18 Date  
505-801-5616 Phone Number  
E-Mail Address  
Kelly.Robinson@andover.com

District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 87410

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

**OPERATOR'S MONTHLY REPORT**

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1 ☐ Amended Report

2 Western Refining Southwest, Inc.										3 OGRID: 267595		4 10/2018			
5 Address: PO Box 159 Bloomfield, NM 87413										6 Page 1 of 4					
7			INJECTION				PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER				
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	Volume Produced	Pressure	Oil/conden- sate produced	Barrels of water produced	MCF Gas Produced	Days Prod- uced	C O D E	C O D E	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbls/mcf)	Transporter Ogrid	C O D E	Oil on hand at end of month
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747	1	0	551 W												

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

Signature

Kelly Robinson  
Env. Specia

Printed Name & Title

Kelly.Robinson@auden.com

E-Mail Address

11/5/18

Date

505-901-5016

Phone Number

District I

1625 North French, Hobbs, NM 88241

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 84710

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

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2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 11/2018	
5 Address: PO Box 159 Bloomfield, NM 87413					
INJECTION		PRODUCTION		DISPOSITION OF OIL, GAS, AND WATER	
8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of Oil/conden- sate produced	13 Barrels of water produced
14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month
20 Volume (Bbls/mcf)	21 Transporter Ogrid	22 C O D E 4	23 Oil on hand at end of month		
<u>POOL NO. AND NAME</u> Property No. and Name Well No. & U-L-S-T-R API No.					
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747					

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

24

*Kelly Robinson* Kelly Robinson Env. Eng.

Signature

*Kelly.Robinson@andover.com*

E-Mail Address

*505-801-304*

Phone Number

*12/21/19*

Date



**District I**

1625 North French, Hobbs, NM 88241

**District II**

811 S. First St., Artesia, NM 88210

**District III**

1000 Rio Brazos, Aztec, NM 87470

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South Saint Francis Drive

Santa Fe, NM 87505

OPERATOR'S MONTHLY REPORT

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2 Western Refining Southwest, Inc.		3 OGRID: 267595		4 12/2018											
5 Address: PO Box 159 Bloomfield, NM 87413															
INJECTION		PRODUCTION		DISPOSITION OF OIL, GAS, AND WATER											
8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of Oil/conden- sate produced	13 Barrels of water produced	14 MCF Gas Produced	15 Days Prod- uced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Transporter Ogrid	22 C O D E 4	23 Oil on hand at end of month
<b>POOL NO. AND NAME</b> Property No. and Name Well No. & U-L-S-T-R APINo.															
96436 - Entrada 316242 Waste Disposal Well U-H-27-29N-11R 30-045-35747		2082	570 W												

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

Signature: *Kelly Robinson*

Kelly Robinson Env. Supervisor

kelly.robinson@andeaavor.com

505-632-4166

Phone Number

2/14/19

Date

Printed Name & Title

## **APPENDIX B**

### **Quarterly Injection Well Report**

WESTERN REFINING SOUTHWEST, INC. - BLOOMFIELD TERMINAL  
P.O. BOX 159

BLOOMFIELD, NEW MEXICO 87413

QUARTERLY INJECTION WELL REPORT  
DISCHARGE PERMIT UIC-011 (WDW #2)  
U.L: H, SEC 27, T29N, R11W  
API #: 30-045-35747

PERIOD 2018	AMOUNT OF WATER FROM RIVER (GALLONS)	AMOUNT FROM WWTP (GALLONS)	TOTALIZER AMOUNT INJECTED (GALLONS)	DOWN- TIME (HRS)	INJECTION PRESSURE			ANNULAR PRESSURE			ON-LINE FLOW RATES			
					MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (GPM)	MIN (GPM)	AVG (GPM)	
JAN	0	920,000	10,416	719	1,143	671	710	111	-1	86	18	52	36	
FEB	0	693,000	535,752	740	1,396	699	1,078	87	-3	16	85	21	13	
MAR	1,295	619,000	229,782	601	1,406	811	1,009	65	-1	27	35	20	5	
APR	1,302	657,000	141,960	643	1,380	710	826	99	0	69	35	5	3	
MAY	0	698,000	205,548	625	1,398	753	907	85	0	47	32	24	5	
JUN	0	592,000	2,814	719	949	684	701	17	-5	9	32	31	31	
JUL	-	591,000	0	745	667	614	637	33	11	25	0	0	0	
AUG	2,894	649,000	0	745	614	582	597	44	33	38	0	0	0	
SEP	-	789,000	13,440	715	1,056	562	581	49	(5)	41	61	0	41	
OCT	-	888,000	0	745	563	541	551	54	48	51	0	0	0	
NOV	-	689,000	0	722	541	526	533	56	51	53	0	0	0	
DEC	64	626,000	87,444	699	1,110	516	570	68	(5)	59	30	0	29	

CERTIFICATION: *Kelly Rendon* DATE: *1/10/19*

Note: Well officially brought on-line full time March 8, 2017.

## **APPENDIX C**

### **2018 Laboratory Analytical Reports**





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 21, 2018

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX

RE: WDW2 Injection Well Quarterly Sampling

OrderNo.: 1803217

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 26, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1803217

Date Reported: 11/21/2018

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well Water

Project: WDW2 Injection Well Quarterly Samplin

Collection Date: 3/5/2018 1:30:00 PM

Lab ID: 1803217-001

Matrix: AQUEOUS

Received Date: 3/6/2018 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8081: PESTICIDES TCLP</b>							Analyst: <b>MAB</b>
Chlordane	ND	0.30		mg/L	1	3/19/2018 12:04:46 PM	36953
Surr: Decachlorobiphenyl	92.5	41.2-177		%Rec	1	3/19/2018 12:04:46 PM	36953
Surr: Tetrachloro-m-xylene	74.0	29-171		%Rec	1	3/19/2018 12:04:46 PM	36953
<b>EPA METHOD 8270C TCLP</b>							Analyst: <b>DAM</b>
2-Methylphenol	ND	200		mg/L	1	3/13/2018 6:33:29 PM	36952
3+4-Methylphenol	ND	200		mg/L	1	3/13/2018 6:33:29 PM	36952
Phenol	ND	200		mg/L	1	3/13/2018 6:33:29 PM	36952
2,4-Dinitrotoluene	ND	0.13		mg/L	1	3/13/2018 6:33:29 PM	36952
Hexachlorobenzene	ND	0.13		mg/L	1	3/13/2018 6:33:29 PM	36952
Hexachlorobutadiene	ND	0.50		mg/L	1	3/13/2018 6:33:29 PM	36952
Hexachloroethane	ND	3.0		mg/L	1	3/13/2018 6:33:29 PM	36952
Nitrobenzene	ND	2.0		mg/L	1	3/13/2018 6:33:29 PM	36952
Pentachlorophenol	ND	100		mg/L	1	3/13/2018 6:33:29 PM	36952
Pyridine	ND	5.0		mg/L	1	3/13/2018 6:33:29 PM	36952
2,4,5-Trichlorophenol	ND	400		mg/L	1	3/13/2018 6:33:29 PM	36952
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	3/13/2018 6:33:29 PM	36952
Cresols, Total	ND	200		mg/L	1	3/13/2018 6:33:29 PM	36952
Surr: 2-Fluorophenol	51.4	15-73.6		%Rec	1	3/13/2018 6:33:29 PM	36952
Surr: Phenol-d5	51.8	15-63.4		%Rec	1	3/13/2018 6:33:29 PM	36952
Surr: 2,4,6-Tribromophenol	75.0	15-119		%Rec	1	3/13/2018 6:33:29 PM	36952
Surr: Nitrobenzene-d5	72.3	33.5-111		%Rec	1	3/13/2018 6:33:29 PM	36952
Surr: 2-Fluorobiphenyl	59.8	31.8-101		%Rec	1	3/13/2018 6:33:29 PM	36952
Surr: 4-Terphenyl-d14	41.1	17.2-84.7		%Rec	1	3/13/2018 6:33:29 PM	36952
<b>SPECIFIC GRAVITY</b>							Analyst: <b>JRR</b>
Specific Gravity	1.002	0			1	3/12/2018 1:21:00 PM	R49737
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Fluoride	ND	0.50		mg/L	5	3/7/2018 12:12:10 AM	R49581
Chloride	1100	50	*	mg/L	100	3/23/2018 4:43:04 AM	R50004
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/7/2018 12:12:10 AM	R49581
Bromide	3.2	0.50		mg/L	5	3/7/2018 12:12:10 AM	R49581
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/7/2018 12:12:10 AM	R49581
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/7/2018 12:12:10 AM	R49581
Sulfate	100	2.5		mg/L	5	3/7/2018 12:12:10 AM	R49581
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>MRA</b>
Conductivity	4100	5.0		µmhos/c	1	3/7/2018 1:18:30 PM	R49643
<b>SM2320B: ALKALINITY</b>							Analyst: <b>MRA</b>
Bicarbonate (As CaCO3)	488.3	20.00		mg/L Ca	1	3/7/2018 1:18:30 PM	R49643

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1803217

Date Reported: 11/21/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well Water

Project: WDW2 Injection Well Quarterly Samplin

Collection Date: 3/5/2018 1:30:00 PM

Lab ID: 1803217-001

Matrix: AQUEOUS

Received Date: 3/6/2018 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM2320B: ALKALINITY</b>							Analyst: MRA
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	3/7/2018 1:18:30 PM	R49643
Total Alkalinity (as CaCO <sub>3</sub> )	488.3	20.00		mg/L Ca	1	3/7/2018 1:18:30 PM	R49643
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	2940	100	*D	mg/L	1	3/8/2018 7:58:00 PM	36899
<b>SM4500-H+B / 9040C: PH</b>							Analyst: MRA
pH	7.05		H	pH units	1	3/7/2018 1:18:30 PM	R49643
<b>EPA METHOD 7470: MERCURY</b>							Analyst: rde
Mercury	ND	0.20		mg/L	1	3/19/2018 5:16:38 PM	37099
<b>EPA METHOD 6010B: DISSOLVED METALS</b>							Analyst: JLF
Calcium	130	10		mg/L	10	3/14/2018 4:24:08 PM	A49790
Magnesium	47	1.0		mg/L	1	3/14/2018 3:56:16 PM	A49790
Potassium	13	1.0		mg/L	1	3/14/2018 3:56:16 PM	A49790
Sodium	690	10		mg/L	10	3/14/2018 4:24:08 PM	A49790
<b>EPA 6010B: TOTAL RECOVERABLE METALS</b>							Analyst: JLF
Arsenic	ND	5.0		mg/L	1	3/21/2018 4:18:52 PM	37055
Barium	ND	100		mg/L	1	3/21/2018 3:24:53 PM	37055
Cadmium	ND	1.0		mg/L	1	3/21/2018 3:24:53 PM	37055
Chromium	ND	5.0		mg/L	1	3/21/2018 3:24:53 PM	37055
Lead	ND	5.0		mg/L	1	3/21/2018 3:24:53 PM	37055
Selenium	ND	1.0		mg/L	1	3/21/2018 3:24:53 PM	37055
Silver	ND	5.0		mg/L	1	3/21/2018 3:24:53 PM	37055
<b>TCLP VOLATILES BY 8260B</b>							Analyst: RAA
Benzene	ND	0.50		mg/L	200	3/6/2018 11:44:00 PM	T49596
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	3/6/2018 11:44:00 PM	T49596
2-Butanone	ND	200		mg/L	200	3/6/2018 11:44:00 PM	T49596
Carbon Tetrachloride	ND	0.50		mg/L	200	3/6/2018 11:44:00 PM	T49596
Chloroform	ND	6.0		mg/L	200	3/6/2018 11:44:00 PM	T49596
1,4-Dichlorobenzene	ND	7.5		mg/L	200	3/6/2018 11:44:00 PM	T49596
1,1-Dichloroethene	ND	0.70		mg/L	200	3/6/2018 11:44:00 PM	T49596
Hexachlorobutadiene	ND	0.50		mg/L	200	3/6/2018 11:44:00 PM	T49596
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	3/6/2018 11:44:00 PM	T49596
Trichloroethene (TCE)	ND	0.50		mg/L	200	3/6/2018 11:44:00 PM	T49596
Vinyl chloride	ND	0.20		mg/L	200	3/6/2018 11:44:00 PM	T49596
Chlorobenzene	ND	100		mg/L	200	3/6/2018 11:44:00 PM	T49596
Surr: 1,2-Dichloroethane-d4	78.2	70-130		%Rec	200	3/6/2018 11:44:00 PM	T49596
Surr: 4-Bromofluorobenzene	75.3	70-130		%Rec	200	3/6/2018 11:44:00 PM	T49596

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1803217

Date Reported: 11/21/2018

**CLIENT:** Western Refining Southwest, Inc.

**Client Sample ID:** Injection Well Water

**Project:** WDW2 Injection Well Quarterly Samplin

**Collection Date:** 3/5/2018 1:30:00 PM

**Lab ID:** 1803217-001

**Matrix:** AQUEOUS

**Received Date:** 3/6/2018 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
TCLP VOLATILES BY 8260B							Analyst: RAA
Surr: Dibromofluoromethane	83.0	70-130	%Rec	200	3/6/2018 11:44:00 PM	T49596	
Surr: Toluene-d8	87.9	70-130	%Rec	200	3/6/2018 11:44:00 PM	T49596	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

1803217-D01G-INJECTION-WELL-WATER

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE

Collected date/time: 03/05/18 18:30

E975395

## Wet Chemistry by Method 4500 CN E-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	03/08/2018 15:25	WG1081719

## Wet Chemistry by Method 9034-9030B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	03/12/2018 10:43	WG1083257

## Wet Chemistry by Method D93/1010A

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	deg F			date / time	
Flashpoint	DNF at 170		1	03/14/2018 01:45	WG1083256

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

Half Environmental Analysis Laboratory

E975395

11/21/18 10:16

1803217-001 INJECTION WELL WATER

## SAMPLE RESULTS - 02

ONE LAB NATIONWIDE

Collected date/time: 03/05/18 13:30

1975395

## Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
ORP	mV 18.0	<u>TB</u>	1	03/13/2018 16:52	<u>WG1084109</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Si

6 Qc

7 GI

8 AI

9 Sc

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

Hall Environmental Analysis Laboratory

1975395

11/21/18 16:16

WG1084109

Wet Chemistry by Method 2586

# QUALITY CONTROL SUMMARY

ONELAB NATIONWIDE

1975395-02

L975395-02 Original Sample (OS) • Duplicate (DUP)

(OS) L975395-02 03/13/18 16:52 • (DUP) R3292877-3 03/13/18 16:52

Analyte	Original Result	DUP Result	DUP RPD	DUP Qualifier	DUP RPD Limits
ORP	mV 18.0	mV 15.0	% 18.2	%	% 20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292877-1 03/13/18 16:52 • (LCSD) R3292877-2 03/13/18 16:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
ORP	mV 228	mV 227	mV 227	% 99.6	% 99.6	% 90.0-110	% 0.000	%	%	% 20

☐ Cp  
☐ Tc  
☐ Ss  
☐ Cn  
☐ Sr  
☐ Qc  
☐ Gl  
☐ Al  
☐ Sc

ACCOUNT  
Hall Environmental Analysis Laboratory

PROJECT

SDG  
1975395

DATE/TIME  
11/21/18 10:16

WG1081719

Wet Chemistry by Method 4500-CN-E-2011

## QUALITY CONTROL SUMMARY

ONE LAB NATIONWIDE

1975395-01

## Method Blank (MB)

(MB) R3291674-1 03/08/18 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Cyanide	U		0.00180	0.00500

## L975395-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975395-01 03/08/18 15:25 • (DUP) R3291674-7 03/08/18 15:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	0.000	1	0.000		20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCS-D)

(LCS) R3291674-2 03/08/18 14:55 • (LCS-D) R3291674-3 03/08/18 14:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCS-D Rec. %	Rec. Limits %	LCS Qualifier	LCS-D Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.108	0.103	108	103	85.0-115			4.74	20

Cp

Tc

Ss

Cn

Sr

Gl

Al

Sc

ACCOUNT

Hull Environmental Analysis Laboratory

PROJECT

SDG

L975395

DATE/TIME

1/24/18 10:46



WG1083257

Wet Chemistry by Method: 8034-9030B

QUALITY CONTROL SUMMARY

1875395-01

ONE LAB NATIONWIDE

Method Blank (MB)

(MB) R3292382-1 03/12/18 10:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Sulfide	U		0.00650	0.0500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292382-2 03/12/18 10:42 • (LCSD) R3292382-3 03/12/18 10:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	0.449	0.447	89.8	89.4	85.0-115			0.446	20

Cp	Tc	Ss	Cn	Sr	Co	Gl	Al	Sc
----	----	----	----	----	----	----	----	----

ACCOUNT: Hall Environmental Analysis Laboratory

PROJECT:

SDG: 1875395

DATE/TIME: 1/22/18 10:36

WG1083256

Wet Chemistry by Method: 693/1019A

## QUALITY CONTROL SUMMARY

ONE-STEP, NATIONWIDE

## L976568-02 Original Sample (OS) • Duplicate (DUP)

(OS) L976568-02 03/14/18 01:45 • (DUP) R3292972-3 03/14/18 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 141	deg F 144	1	% 2.11		% 10

## L976588-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976588-01 03/14/18 01:45 • (DUP) R3292972-4 03/14/18 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 151	deg F 149	1	% 1.34		% 10

## L976603-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976603-01 03/14/18 01:45 • (DUP) R3292972-5 03/14/18 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 70.5	deg F 70.5	1	% 0.000		% 10

## L976608-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976608-01 03/14/18 01:45 • (DUP) R3292972-6 03/14/18 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 151	deg F 146	1	% 3.38		% 10

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCS-D)

(LCS) R3292972-1 03/14/18 01:45 • (LCS-D) R3292972-2 03/14/18 01:45

Analyte	Spike Amount	LCS Result	LCS-D Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCS-D Qualifier	RPD	RPD Limits
Flashpoint	deg F 82.0	deg F 82.9	deg F 82.7	% 101	% 101	% 96.0-104			% 0.241	% 10

ACCOUNT

PROJECT

SDS

DATE/TIME

Hall Environmental Analysis Laboratory

L975595

03/18/18

# GLOSSARY OF TERMS

ONE LAB. NATIONWIDE



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL, where applicable).
RDL	Reported Detection Limit.
Rec	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	GI
8	AI
9	Sc

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

**Client:** Western Refining Southwest, Inc.  
**Project:** WDW2 Injection Well Quarterly Sampling

Sample ID <b>MB</b>	SampType: <b>mbk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R49581</b>		RunNo: <b>49581</b>							
Prep Date:	Analysis Date: <b>3/6/2018</b>		SeqNo: <b>1603755</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R49581</b>		RunNo: <b>49581</b>							
Prep Date:	Analysis Date: <b>3/6/2018</b>		SeqNo: <b>1603756</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.0	90	110			
Bromide	2.4	0.10	2.500	0	97.7	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.7	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	97.7	90	110			
Sulfate	9.5	0.50	10.00	0	94.8	90	110			

Sample ID <b>MB</b>	SampType: <b>mbk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R50004</b>		RunNo: <b>50004</b>							
Prep Date:	Analysis Date: <b>3/22/2018</b>		SeqNo: <b>1619806</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R50004</b>		RunNo: <b>50004</b>							
Prep Date:	Analysis Date: <b>3/22/2018</b>		SeqNo: <b>1619807</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.4	90	110			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Project: WDWZ Injection Well Quarterly Sampling

Sample ID	100ng lcs	SampType:	LCS	TestCode:	TCLP Volatiles by 8260B					
Client ID:	LCSW	Batch ID:	T49596	RunNo:	49596					
Prep Date:		Analysis Date:	3/6/2018	SeqNo:	1603259	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.020	0.000062	0.02000	0	98.9	70	130			
1,1-Dichloroethene	0.022	0.000081	0.02000	0	108	70	130			
Trichloroethene (TCE)	0.019	0.00011	0.02000	0	95.2	70	130			
Chlorobenzene	0.022	0.00011	0.02000	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	0.0080		0.01000		80.1	70	130			
Surr: 4-Bromofluorobenzene	0.0076		0.01000		75.7	70	130			
Surr: Dibromofluoromethane	0.0086		0.01000		85.8	70	130			
Surr: Toluene-d8	0.0088		0.01000		87.5	70	130			

Sample ID <b>rb</b>		SampType: <b>MBLK</b>		TestCode: <b>TCLP Volatiles by 8260B</b>						
Client ID: <b>PBW</b>		Batch ID: <b>T49596</b>		RunNo: <b>49596</b>						
Prep Date:		Analysis Date: <b>3/6/2018</b>		SeqNo: <b>1603260</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Hexachlorobutadiene	ND	0.50								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.0079		0.01000		79.3	70	130			
Surr: 4-Bromofluorobenzene	0.0074		0.01000		74.5	70	130			
Surr: Dibromofluoromethane	0.0084		0.01000		84.0	70	130			
Surr: Toluene-d8	0.0087		0.01000		87.3	70	130			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

**Client:** Western Refining Southwest, Inc.  
**Project:** WDW2 Injection Well Quarterly Sampling

Sample ID	1803217-001bms	SampType:	MS	TestCode:	EPA Method 8270C TCLP					
Client ID:	Injection Well Water	Batch ID:	36952	RunNo:	49803					
Prep Date:	3/12/2018	Analysis Date:	3/13/2018	SeqNo:	1611307	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200	0.1000	0	88.3	23.9	129			
3+4-Methylphenol	ND	200	0.2000	0	79.3	15	167			
2,4-Dinitrotoluene	ND	0.13	0.1000	0	69.4	15	147			
Hexachlorobenzene	ND	0.13	0.1000	0	75.5	41.4	136			
Hexachlorobutadiene	ND	0.50	0.1000	0	65.2	16.2	134			
Hexachloroethane	ND	3.0	0.1000	0	57.9	20.6	124			
Nitrobenzene	ND	2.0	0.1000	0	82.0	39.5	134			
Pentachlorophenol	ND	100	0.1000	0	78.0	15	137			
Pyridine	ND	5.0	0.1000	0	0	15	129			S
2,4,5-Trichlorophenol	ND	400	0.1000	0	84.4	15	158			
2,4,6-Trichlorophenol	ND	2.0	0.1000	0	82.4	15	153			
Cresols, Total	ND	200	0.3000	0	85.1	10.6	179			
Surr: 2-Fluorophenol	0.11		0.2000		55.9	15	73.6			
Surr: Phenol-d5	0.11		0.2000		56.6	15	63.4			
Surr: 2,4,6-Tribromophenol	0.17		0.2000		83.0	15	119			
Surr: Nitrobenzene-d5	0.080		0.1000		80.4	33.5	111			
Surr: 2-Fluorobiphenyl	0.073		0.1000		72.9	31.8	101			
Surr: 4-Terphenyl-d14	0.044		0.1000		43.9	17.2	84.7			

Sample ID	1803217-001bmsd	SampType: MSD		TestCode: EPA Method 8270C TCLP						
Client ID:	Injection Well Water	Batch ID: 36952		RunNo: 49803						
Prep Date:	3/12/2018	Analysis Date: 3/13/2018		SeqNo: 1611308		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200	0.1000	0	78.3	23.9	129	0	20	
3+4-Methylphenol	ND	200	0.2000	0	71.0	15	167	0	20	
2,4-Dinitrotoluene	ND	0.13	0.1000	0	58.6	15	147	0	23.2	
Hexachlorobenzene	ND	0.13	0.1000	0	62.0	41.4	136	0	20	
Hexachlorobutadiene	ND	0.50	0.1000	0	53.0	16.2	134	0	20	R
Hexachloroethane	ND	3.0	0.1000	0	48.9	20.6	124	0	31.3	
Nitrobenzene	ND	2.0	0.1000	0	75.6	39.5	134	0	26.6	
Pentachlorophenol	ND	100	0.1000	0	70.1	15	137	0	27.9	
Pyridine	ND	5.0	0.1000	0	0	15	129	0	47.4	S
2,4,5-Trichlorophenol	ND	400	0.1000	0	82.6	15	158	0	36.9	
2,4,6-Trichlorophenol	ND	2.0	0.1000	0	76.6	15	153	0	37.2	
Cresols, Total	ND	200	0.3000	0	73.5	10.6	179	0	27.4	
Surr: 2-Fluorophenol	0.10		0.2000		50.6	15	73.6	0	0	
Surr: Phenol-d5	0.11		0.2000		52.6	15	63.4	0	0	
Surr: 2,4,6-Tribromophenol	0.15		0.2000		73.5	15	119	0	0	

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	1803217-001bmsd	SampType:	MSD	TestCode:	EPA Method 8270C TCLP					
Client ID:	Injection Well Water	Batch ID:	36952	RunNo:	49803					
Prep Date:	3/12/2018	Analysis Date:	3/13/2018	SeqNo:	1611308	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.072		0.1000		72.0	33.5	111	0	0	
Surr: 2-Fluorobiphenyl	0.052		0.1000		52.2	31.8	101	0	0	
Surr: 4-Terphenyl-d14	0.040		0.1000		39.7	17.2	84.7	0	0	

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	ics-1 ~20uS eC	SampType:	ics	TestCode:	SM2510B: Specific Conductance					
Client ID:	LCSW	Batch ID:	R49643	RunNo:	49643					
Prep Date:		Analysis Date:	3/7/2018	SeqNo:	1605139	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	22	5.0	20.00	0	112	80	120			

Sample ID	1803217-001d dup	SampType:	dup	TestCode:	SM2510B: Specific Conductance					
Client ID:	Injection Well Water	Batch ID:	R49643	RunNo:	49643					
Prep Date:		Analysis Date:	3/7/2018	SeqNo:	1605150	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	4100	5.0						0.0923	20	

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	MB-37099	SampType	MBLK	TestCode	EPA Method 7470: Mercury					
Client ID	PBW	Batch ID	37099	RunNo	49907					
Prep Date	3/19/2018	Analysis Date	3/19/2018	SeqNo	1615564	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Mercury										
Sample ID	LCS-37099			SampType	LCS		TestCode: EPA Method 7470: Mercury			
Client ID	LCSW			Batch ID	37099		RunNo: 49907			
Prep Date	3/19/2018			Analysis Date	3/19/2018		SeqNo	1615579		Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0046	0.00020	0.005000	0	91.3	80	120			

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | B Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A49790	RunNo:	49790					
Prep Date:		Analysis Date:	3/14/2018	SeqNo:	1610954	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A49790	RunNo:	49790					
Prep Date:		Analysis Date:	3/14/2018	SeqNo:	1610956	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	55	1.0	50.00	0	110	80	120			
Magnesium	56	1.0	50.00	0	113	80	120			
Potassium	55	1.0	50.00	0	111	80	120			
Sodium	56	1.0	50.00	0	113	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	MB-37055	SampType	MBLK	TestCode	EPA 6010B: Total Recoverable Metals					
Client ID	PBW	Batch ID	37055	RunNo	49969					
Prep Date	3/15/2018	Analysis Date	3/21/2018	SeqNo	1617934	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-37055	SampType	LCS	TestCode	EPA 6010B: Total Recoverable Metals					
Client ID	LCSW	Batch ID	37055	RunNo	49969					
Prep Date	3/15/2018	Analysis Date	3/21/2018	SeqNo	1617936	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.020	0.5000	0	105	80	120			
Cadmium	0.53	0.0020	0.5000	0	106	80	120			
Chromium	0.51	0.0060	0.5000	0	103	80	120			
Lead	0.49	0.0050	0.5000	0	97.4	80	120			
Selenium	0.53	0.050	0.5000	0	106	80	120			
Silver	0.10	0.0050	0.1000	0	105	80	120			

Sample ID	1803217-001FMS	SampType	MS	TestCode	EPA 6010B: Total Recoverable Metals					
Client ID	Injection Well Water	Batch ID	37055	RunNo	49969					
Prep Date	3/15/2018	Analysis Date	3/21/2018	SeqNo	1617947	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.92	0.020	0.5000	0.5354	76.7	75	125			
Cadmium	0.48	0.0020	0.5000	0	96.7	75	125			
Chromium	0.46	0.0060	0.5000	0	92.4	75	125			
Lead	0.43	0.0050	0.5000	0	86.8	75	125			
Selenium	0.32	0.050	0.5000	0	64.9	75	125			S
Silver	0.10	0.0050	0.1000	0.003960	98.8	75	125			

Sample ID	1803217-001FMSD	SampType	MSD	TestCode	EPA 6010B: Total Recoverable Metals					
Client ID	Injection Well Water	Batch ID	37055	RunNo	49969					
Prep Date	3/15/2018	Analysis Date	3/21/2018	SeqNo	1617948	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.94	0.020	0.5000	0.5354	80.2	75	125	1.93	20	
Cadmium	0.50	0.0020	0.5000	0	99.0	75	125	2.31	20	
Chromium	0.47	0.0060	0.5000	0	94.9	75	125	2.71	20	
Lead	0.44	0.0050	0.5000	0	87.5	75	125	0.778	20	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	1803217-001FMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well Water	Batch ID:	37055	RunNo:	49969					
Prep Date:	3/15/2018	Analysis Date:	3/21/2018	SeqNo:	1617948	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.32	0.050	0.5000	0	64.1	75	125	1.18	20	S
Silver	0.11	0.0050	0.1000	0.003960	102	75	125	2.87	20	

Sample ID	MB-37055	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID:	37055	RunNo:	49969					
Prep Date:	3/15/2018	Analysis Date:	3/21/2018	SeqNo:	1617983	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								

Sample ID	LCS-37055	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	37055	RunNo:	49969					
Prep Date:	3/15/2018	Analysis Date:	3/21/2018	SeqNo:	1617985	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.020	0.5000	0	105	80	120			

Sample ID	1803217-001FMS	SampType:	MS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well Water	Batch ID:	37055	RunNo:	49969					
Prep Date:	3/15/2018	Analysis Date:	3/21/2018	SeqNo:	1617996	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.020	0.5000	0	104	75	125			

Sample ID	1803217-001FMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well Water	Batch ID:	37055	RunNo:	49969					
Prep Date:	3/15/2018	Analysis Date:	3/21/2018	SeqNo:	1617997	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	101	75	125	3.42	20	

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	1803217-001d dup	SampType:	dup	TestCode:	SM4500-H+B / 9040C: pH					
Client ID:	Injection Well Water	Batch ID:	R49643	RunNo:	49643					
Prep Date:		Analysis Date:	3/7/2018	SeqNo:	1605182	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.12									H

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

**Client:** Western Refining Southwest, Inc.  
**Project:** WDW2 Injection Well Quarterly Sampling

Sample ID	mb-1 alk	SampType:	mbk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R49643	RunNo:	49643					
Prep Date:		Analysis Date:	3/7/2018	SeqNo:	1605096	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-1 alk		SampType:	lcs		TestCode:	SM2320B: Alkalinity				
Client ID:	LCSW		Batch ID:	R49643		RunNo:	49643				
Prep Date:			Analysis Date:	3/7/2018		SeqNo:	1605097		Units: mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	77.96	20.00	80.00	0	97.5	90	110				

Sample ID	mb-2 alk	SampType:	mbk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R49643	RunNo:	49643					
Prep Date:		Analysis Date:	3/7/2018	SeqNo:	1605120	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-2 alk		SampType:	Ics		TestCode:	SM2320B: Alkalinity				
Client ID:	LCSW		Batch ID:	R49643		RunNo:	49643				
Prep Date:			Analysis Date:	3/7/2018		SeqNo:	1605121		Units:		mg/L CaCO3
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	78.68	20.00	80.00	0	98.4	90	110				

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: WDW2 Injection Well Quarterly Sampling

Sample ID	1803217-001DDUP	SampType:	DUP	TestCode:	Specific Gravity					
Client ID:	Injection Well Water	Batch ID:	R49737	RunNo:	49737					
Prep Date:		Analysis Date:	3/12/2018	SeqNo:	1608807					
				Units:						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	0.9997	0						2.50	20	

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1803217

21-Nov-18

**Client:** Western Refining Southwest, Inc.  
**Project:** WDW2 Injection Well Quarterly Sampling

Sample ID	MB-36899	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	36899	RunNo:	49649					
Prep Date:	3/7/2018	Analysis Date:	3/8/2018	SeqNo:	1605540	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-36899	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	36899	RunNo:	49649					
Prep Date:	3/7/2018	Analysis Date:	3/8/2018	SeqNo:	1605541	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1803217

ReptNo: 1

Received By: Anne Thorne 3/6/2018 6:55:00 AM

Completed By: Anne Thorne 3/6/2018 7:36:26 AM

Reviewed By: JF spe 03/06/18

Anne Thorne  
Anne Thorne  
Labeled By DDS

### Chain of Custody

1. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

2. How was the sample delivered?

Courier

### Log In

3. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$

Yes ☒

No ☐

NA ☐

5. Sample(s) in proper container(s)?

Yes ☒

No ☐

6. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

7. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

8. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

9. VOA vials have zero headspace?

Yes ☒

No ☐

No VOA Vials ☐

10. Were any sample containers received broken?

Yes ☐

No ☒

11. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

13. Is it clear what analyses were requested?

Yes ☒

No ☐

14. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

# of preserved bottles checked for pH: 32  
(2 or 12 unless noted)  
Adjusted? no  
Checked by: DDS

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

### 17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			



immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (see Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

## 2. GENERAL FACILITY OPERATIONS:

THE PERMITTEE SHALL MONITORING OF THE WASTE DISPOSAL WELL NO. 2 FOR THE FOLLOWING CHARACTERISTICS: pH, Eh, Specific Conductance, Specific Gravity, Temperature, Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and, EPA RCRA Characteristics for Ignitability (ASTM Methods), Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall also analyze the injected fluids quarterly for the following characteristics:

- pH (Method 9040);
- Eh;
- Specific conductance;
- Specific gravity;
- Temperature;
- Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and,
- EPA RCRA Characteristics for Ignitability (ASTM Methods), Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).

QUARTERLY MONITORING LIST			
EPA HY No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D046	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0
D036	Nitrobenzene	8091 8270D	2.0
D037	Pentachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

**WESTERN REFINING SOUTHWEST, INC.**  
**WASTE DISPOSAL WELL NO. 2**

**UIC# 011 (WDW-2)**  
**July 20, 2016**

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B	0.5
		8260B	
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8021A	2.0
		8270D	
D043	Vinyl chloride	8021B	0.2
		8260B	

*If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used.*

*The regulatory level of total cresol is 200 mg/L.*

*If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level.*

*If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).*

**1. Monitor and Piezometer Wells:** Groundwater with a total dissolved solids concentration of less than 10,000 mg/L occurs at an estimated depth of approximately 10 - 30 ft. below ground surface at the WDW-2 well (hereafter, "uppermost water-bearing unit"). Groundwater monitoring well (MW) with GW sampling capability shall be installed proximal to and hydrogeologically downgradient from WDW-2 in order to monitor the uppermost water-bearing unit. The MW shall be screened (15 ft. screen with top of screen positioned 5 ft. above water table) into the uppermost water-bearing unit. The Permittee shall propose a monitoring frequency with chemical monitoring parameters in order to detect potential groundwater contamination either associated with or not associated with WDW-2.

**2.B. CONTINGENCY PLANS:** The Permittee shall implement its proposed contingency plan(s) included in its application to cope with failure of a system(s) in the Discharge Permit.

**2.C. CLOSURE:** Prior to closure of the facility, the Permittee shall submit for OCD's approval, a closure plan including a completed form C-103 for plugging and abandonment of the waste injection well. The Permittee shall plug and abandon its well pursuant to 20.6.2.5209 NMAC and as specified in Permit Condition 2.D.

**1. Pre-Closure Notification:** Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of WDW-2. Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.

**2. Required Information:** The Permittee shall provide OCD's Environmental Bureau with the following information in the pre-closure notification specified in Permit Condition 2.C.1:

- Name of facility;
- Address of facility;
- Name of Permittee-(and owner or operator, if appropriate);



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 21, 2018

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX

RE: Injection Well WDW 2

OrderNo.: 1807064

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/30/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 23, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1807064

Date Reported: 11/21/2018

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2

Collection Date: 6/29/2018 3:00:00 PM

Lab ID: 1807064-001

Matrix: AQUEOUS

Received Date: 6/30/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8081: PESTICIDES TCLP</b>							Analyst: JME
Chlordane	ND	0.030		mg/L	1	7/11/2018 3:11:57 PM	39066
Surr: Decachlorobiphenyl	92.7	41.2-177		%Rec	1	7/11/2018 3:11:57 PM	39066
Surr: Tetrachloro-m-xylene	69.1	29-171		%Rec	1	7/11/2018 3:11:57 PM	39066
<b>EPA METHOD 8270C TCLP</b>							Analyst: JDC
2-Methylphenol	ND	200		mg/L	1	7/5/2018 3:11:57 PM	39032
3+4-Methylphenol	ND	200		mg/L	1	7/5/2018 3:11:57 PM	39032
2,4-Dinitrotoluene	ND	0.13		mg/L	1	7/5/2018 3:11:57 PM	39032
Hexachlorobenzene	ND	0.13		mg/L	1	7/5/2018 3:11:57 PM	39032
Hexachlorobutadiene	ND	0.50		mg/L	1	7/5/2018 3:11:57 PM	39032
Hexachloroethane	ND	3.0		mg/L	1	7/5/2018 3:11:57 PM	39032
Nitrobenzene	ND	2.0		mg/L	1	7/5/2018 3:11:57 PM	39032
Pentachlorophenol	ND	100		mg/L	1	7/5/2018 3:11:57 PM	39032
Pyridine	ND	5.0		mg/L	1	7/5/2018 3:11:57 PM	39032
2,4,5-Trichlorophenol	ND	400		mg/L	1	7/5/2018 3:11:57 PM	39032
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	7/5/2018 3:11:57 PM	39032
Cresols, Total	ND	200		mg/L	1	7/5/2018 3:11:57 PM	39032
Surr: 2-Fluorophenol	38.9	15-73.6		%Rec	1	7/5/2018 3:11:57 PM	39032
Surr: Phenol-d5	40.7	15-63.4		%Rec	1	7/5/2018 3:11:57 PM	39032
Surr: 2,4,6-Tribromophenol	54.0	15-119		%Rec	1	7/5/2018 3:11:57 PM	39032
Surr: Nitrobenzene-d5	72.5	33.5-111		%Rec	1	7/5/2018 3:11:57 PM	39032
Surr: 2-Fluorobiphenyl	68.2	31.8-101		%Rec	1	7/5/2018 3:11:57 PM	39032
Surr: 4-Terphenyl-d14	94.7	17.2-84.7	S	%Rec	1	7/5/2018 3:11:57 PM	39032
<b>SPECIFIC GRAVITY</b>							Analyst: JRR
Specific Gravity	1.001	0			1	7/9/2018 12:45:00 PM	R52536
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Fluoride	ND	0.50		mg/L	5	7/3/2018 10:22:19 AM	R52474
Chloride	1400	50	*	mg/L	100	7/16/2018 5:34:38 PM	R52759
Bromide	4.8	0.50		mg/L	5	7/3/2018 10:22:19 AM	R52474
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	7/3/2018 10:22:19 AM	R52474
Sulfate	ND	2.5		mg/L	5	7/3/2018 10:22:19 AM	R52474
Nitrate+Nitrite as N	ND	1.0		mg/L	5	7/3/2018 10:48:02 AM	R52474
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	5400	5.0		µmhos/c	1	7/10/2018 11:29:25 AM	R52592
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO3)	1008	20.00		mg/L Ca	1	7/10/2018 11:29:25 AM	R52592
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	7/10/2018 11:29:25 AM	R52592
Total Alkalinity (as CaCO3)	1008	20.00		mg/L Ca	1	7/10/2018 11:29:25 AM	R52592

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1807064

Date Reported: 11/21/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2

Collection Date: 6/29/2018 3:00:00 PM

Lab ID: 1807064-001

Matrix: AQUEOUS

Received Date: 6/30/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
Analyst: sat							
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Total Dissolved Solids	3090	200	*D	mg/L	1	7/6/2018 3:09:00 PM	39057
Analyst: JRR							
SM4500-H+B / 9040C: PH							
pH	7.62		H	pH units	1	7/10/2018 11:29:25 AM	R52592
Analyst: rde							
EPA METHOD 7470: MERCURY							
Mercury	ND	0.00020		mg/L	1	7/6/2018 11:01:18 AM	39049
Analyst: ELS							
EPA METHOD 6010B: DISSOLVED METALS							
Calcium	170	10		mg/L	10	7/7/2018 11:13:46 AM	A52514
Magnesium	56	1.0		mg/L	1	7/7/2018 10:51:30 AM	A52514
Potassium	17	1.0		mg/L	1	7/7/2018 10:51:30 AM	A52514
Sodium	920	10		mg/L	10	7/7/2018 11:13:46 AM	A52514
Analyst: ELS							
EPA 6010B: TOTAL RECOVERABLE METALS							
Arsenic	ND	5.0		mg/L	1	7/7/2018 10:53:11 AM	39047
Barium	ND	100		mg/L	1	7/7/2018 10:53:11 AM	39047
Cadmium	ND	1.0		mg/L	1	7/7/2018 10:53:11 AM	39047
Chromium	ND	5.0		mg/L	1	7/7/2018 10:53:11 AM	39047
Lead	ND	5.0		mg/L	1	7/11/2018 9:06:12 AM	39047
Selenium	ND	1.0		mg/L	1	7/7/2018 10:53:11 AM	39047
Silver	ND	5.0		mg/L	1	7/7/2018 10:53:11 AM	39047
Analyst: RAA							
TCLP VOLATILES BY 8260B							
Benzene	ND	0.50		mg/L	200	7/9/2018 10:46:00 PM	T52559
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	7/9/2018 10:46:00 PM	T52559
2-Butanone	ND	200		mg/L	200	7/9/2018 10:46:00 PM	T52559
Carbon Tetrachloride	ND	0.50		mg/L	200	7/9/2018 10:46:00 PM	T52559
Chloroform	ND	6.0		mg/L	200	7/9/2018 10:46:00 PM	T52559
1,4-Dichlorobenzene	ND	7.5		mg/L	200	7/9/2018 10:46:00 PM	T52559
1,1-Dichloroethene	ND	0.70		mg/L	200	7/9/2018 10:46:00 PM	T52559
Hexachlorobutadiene	ND	0.50		mg/L	200	7/9/2018 10:46:00 PM	T52559
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	7/9/2018 10:46:00 PM	T52559
Trichloroethene (TCE)	ND	0.50		mg/L	200	7/9/2018 10:46:00 PM	T52559
Vinyl chloride	ND	0.20		mg/L	200	7/9/2018 10:46:00 PM	T52559
Chlorobenzene	ND	100		mg/L	200	7/9/2018 10:46:00 PM	T52559
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	200	7/9/2018 10:46:00 PM	T52559
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	200	7/9/2018 10:46:00 PM	T52559
Surr: Dibromofluoromethane	99.2	70-130		%Rec	200	7/9/2018 10:46:00 PM	T52559
Surr: Toluene-d8	95.2	70-130		%Rec	200	7/9/2018 10:46:00 PM	T52559

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



1807064-001G INJECTION WELL

## SAMPLE RESULTS - 01

ONE LAB NATIONWIDE

Collected date/time: 06/29/18 15:00

L1007322

## Wet Chemistry by Method 4500 CN E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Cyanide	0.0407	J3	0.00500	1	07/12/2018 14:05	WG1136283

## Wet Chemistry by Method 9034-9030B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Sulfide	ND		0.0500	1	07/10/2018 12:59	WG1135040

## Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170		1	07/11/2018 12:30	WG1135328

1 Cp

2 Tc

3 Ss

4 Cn

5

6 Qc

7 GI

8 Al

9 Sc

1807064-0011 INJECTION WELL

## SAMPLE RESULTS - 02

ONE LAB: NATIONWIDE

Collected date/time: 06/29/18 15:00

L1007322

## Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
ORP	mV 200	<u>IB</u>	1	07/10/2018 15:30	<u>WG1135559</u>

Cp

2 Tc

3 Ss

4 Cn

5 S

6 Qc

7 GI

8 Al

9 Sc

ACCOUNT

PROJECT

SPP

DATE/TIME

Halt Environmental Analysis Laboratory

L1007322

11/21/18 10:16

WG1135559

Wet Chemistry by Method d:2580

# QUALITY CONTROL SUMMARY

CH2LAB-NATIONWIDE

L1007322-02 Original Sample (OS) • Duplicate (DUP)

(LCS) R3324459-1 07/10/18 15:30 • (DUP) R3324459-3 07/10/18 15:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
ORP	mV 200	mV 192	1	% 4.08	% .....	% 20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3324459-1 07/10/18 15:30 • (LCSD) R3324459-2 07/10/18 15:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
ORP	mV 228	mV 229	mV 228	% 100	% 100	% 90.0-110	% .....	% .....	% 0.438	% 20

1	2	3	4	5	6	7	8	9
Cp	Tc	Ss	Cu	Sr	Co	Gl	Al	Sc

ACCOUNT:  
Hall Environmental Analysis Laboratory

PROJECT:

SISG

L1007322

DATE/TIME:

10/27/18 10:16

WG1136283

Wet Chemistry by Metro P-4500-CN-E-2011

## QUALITY CONTROL SUMMARY

ONE LAB NATIONWIDE

L1007322-01

## Method Blank (MB)

(MB) R3325098-1 07/12/18 09:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Cyanide	0.00198	J	0.00180	0.00500

## L1007070-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1007070-01 07/12/18 09:44 • (DUP) R3325098-4 07/12/18 09:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.00934	0.00380	1	84.3	P1	20

## L1007322-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1007322-01 07/12/18 14:05 • (DUP) R3325098-7 07/12/18 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.0407	0.0140	1	97.6	J3	20

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCS-D)

(LCS) R3325098-2 07/12/18 09:38 • (LCS-D) R3325098-3 07/12/18 09:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCS-D Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.101	0.0970	101	97.0	85.0-115			4.04	20

## L1007070-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1007070-02 07/12/18 09:46 • (MS) R3325098-5 07/12/18 13:56 • (MSD) R3325098-6 07/12/18 13:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0979	0.0985	97.9	98.5	1	75.0-125			0.611	20

ACCOUNT  
Hill Environmental Analytical Laboratory

PROJECT

SQC  
L1007322DATE/TIME  
07/12/18 10:16

WG1135040

Wet Chemistry by Method 8034-90308

# QUALITY CONTROL SUMMARY

LC07323-01

ONE LAB NATIONWIDE

## Method Blank (MB)

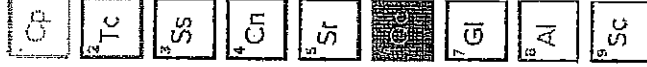
(MB) R3324392-1 07/10/18 12:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Reactive Sulfide	mg/l U		mg/l 0.00650	mg/l 0.0500

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3324392-2 07/10/18 12:45 • (LCSD) R3324392-3 07/10/18 12:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Reactive Sulfide	mg/l 0.500	mg/l 0.539	mg/l 0.539	% 108	% 108	% 85.0-115			% 0.000	% 20



ACCOUNT  
Hall Environmental Analysis Laboratory

PROJECT

SDS  
11007322

DATE/TIME  
11/23/18 10:16

WG1135328

Wet Chemistry by Method D93/1010A

# QUALITY CONTROL SUMMARY

ONE LABORATORY

L1007047-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1007047-01 07/11/18 12:30 • (DUP) R3324710-3 07/11/18 12:30

Analyte	Original Result	DUP Result	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F	deg F	%	%	%
	DNF at 200	DNF at 200	0.000		10

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3324710-1 07/11/18 12:30 • (LCSD) R3324710-2 07/11/18 12:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Flashpoint	deg F	deg F	deg F	%	%	%	%	%	%	%
	82.0	82.7	82.7	101	101	95.0-104			0.000	10

1	2	3	4	5	6	7	8	9
Cp	Tc	Ss	Cn	St	Co	Gl	Al	Sc

ACCOUNT: Fall Environmental Analysis Laboratory

PROJECT:

SDS: 1007922

DATE/TIME: 12/18/10 16:15

# GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past too close to holding time expiration.



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Project:		Injection with WDW 2								
Sample ID	MB	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R52474	RunNo:	52474					
Prep Date:		Analysis Date:	7/3/2018	SeqNo:	1720662	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Nitrate+Nitrite as N		ND	0.20							
Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R52474	RunNo:	52474					
Prep Date:		Analysis Date:	7/3/2018	SeqNo:	1720663	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Bromide	2.5	0.10	2.500	0	99.6	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	98.8	90	110			
Sulfate	9.6	0.50	10.00	0	96.3	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

Nitrate+Nitrite as N										
Sample ID	MB	SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R52759			RunNo: 52759					
Prep Date:		Analysis Date: 7/16/2018			SeqNo: 1732762		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID		LCS		SampType: lcs		TestCode: EPA Method 300.0: Anions				
Client ID:		LCSW		Batch ID: R52759		RunNo: 52759				
Prep Date:				Analysis Date: 7/16/2018		SeqNo: 1732763		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	99.3	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	100ng Ics	SampType:	LCS	TestCode:	TCLP Volatiles by 8260B					
Client ID:	LCSW	Batch ID:	T52559	RunNo:	52559					
Prep Date:		Analysis Date:	7/9/2018	SeqNo:	1724908	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.017	0.000062	0.02000	0	86.3	70	130			
1,1-Dichloroethene	0.018	0.000081	0.02000	0	90.2	70	130			
Trichloroethene (TCE)	0.017	0.00011	0.02000	0	86.9	70	130			
Chlorobenzene	0.019	0.00011	0.02000	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.0096		0.01000		95.7	70	130			
Surr: 4-Bromofluorobenzene	0.0098		0.01000		98.0	70	130			
Surr: Dibromofluoromethane	0.0094		0.01000		93.5	70	130			
Surr: Toluene-d8	0.0095		0.01000		95.3	70	130			

Sample ID	RB	SampType: MBLK			TestCode: TCLP Volatiles by 8260B					
Client ID:	PBW	Batch ID: T52559			RunNo: 52559					
Prep Date:		Analysis Date: 7/9/2018			SeqNo: 1724909		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Hexachlorobutadiene	ND	0.50								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.0096		0.01000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.0095		0.01000		95.3	70	130			
Surr: Dibromofluoromethane	0.0096		0.01000		95.9	70	130			
Surr: Toluene-d8	0.0097		0.01000		96.7	70	130			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Injection Well

Sample ID	1807064-001Bms	SampType:	MS	TestCode:	EPA Method 8270C TCLP					
Client ID:	Injection Well	Batch ID:	39032	RunNo:	52481					
Prep. Date:	7/3/2018	Analysis Date:	7/5/2018	SeqNo:	1721129					
				Units:	mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200	0.1000	0	75.2	23.9	129			
3+4-Methylphenol	ND	200	0.2000	0.01598	69.0	15	167			
2,4-Dinitrotoluene	ND	0.13	0.1000	0	70.1	15	147			
Hexachlorobenzene	ND	0.13	0.1000	0	84.9	41.4	136			
Hexachlorobutadiene	ND	0.50	0.1000	0	61.2	16.2	134			
Hexachloroethane	ND	3.0	0.1000	0	53.5	20.6	124			
Nitrobenzene	ND	2.0	0.1000	0	67.2	39.5	134			
Pentachlorophenol	ND	100	0.1000	0	34.0	15	137			
Pyridine	ND	5.0	0.1000	0	43.5	15	129			
2,4,5-Trichlorophenol	ND	400	0.1000	0	73.2	15	158			
2,4,6-Trichlorophenol	ND	2.0	0.1000	0	55.0	15	153			
Cresols, Total	ND	200	0.3000	0.01598	71.1	10.6	179			
Surr: 2-Fluorophenol	0.079		0.2000		39.3	15	73.6			
Surr: Phenol-d5	0.080		0.2000		39.9	15	63.4			
Surr: 2,4,6-Tribromophenol	0.14		0.2000		70.0	15	119			
Surr: Nitrobenzene-d5	0.067		0.1000		66.5	33.5	111			
Surr: 2-Fluorobiphenyl	0.067		0.1000		66.8	31.8	101			
Surr: 4-Terphenyl-d14	0.11		0.1000		109	17.2	84.7			S

Surr: 4-Terphenyl-14

Surr: 4-Terphenyl-14

Surr: 4-Terphenyl-14

Sample ID	1807064-001Bmsd	SampType:	MSD	TestCode:	EPA Method 8270C TCLP					
Client ID:	Injection Well	Batch ID:	39032	RunNo:	52481					
Prep Date:	7/3/2018	Analysis Date:	7/5/2018	SeqNo:	1721130					
				Units:	mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200	0.1000	0	77.6	23.9	129	0	20	
3+4-Methylphenol	ND	200	0.2000	0.01598	72.5	15	167	0	20	
2,4-Dinitrotoluene	ND	0.13	0.1000	0	70.2	15	147	0	23.2	
Hexachlorobenzene	ND	0.13	0.1000	0	88.2	41.4	136	0	20	
Hexachlorobutadiene	ND	0.50	0.1000	0	60.8	16.2	134	0	20	
Hexachloroethane	ND	3.0	0.1000	0	58.2	20.6	124	0	31.3	
Nitrobenzene	ND	2.0	0.1000	0	69.3	39.5	134	0	26.6	
Pentachlorophenol	ND	100	0.1000	0	46.1	15	137	0	27.9	R
Pyridine	ND	5.0	0.1000	0	43.4	15	129	0	47.4	
2,4,5-Trichlorophenol	ND	400	0.1000	0	79.6	15	158	0	36.9	
2,4,6-Trichlorophenol	ND	2.0	0.1000	0	68.5	15	153	0	37.2	
Cresols, Total	ND	200	0.3000	0.01598	74.2	10.6	179	0	27.4	
Surr: 2-Fluorophenol	0.091		0.2000		45.4	15	73.6	0	0	
Surr: Phenol-d5	0.085		0.2000		42.4	15	63.4	0	0	
Surr: 2,4,6-Tribromophenol	0.16		0.2000		81.2	15	119	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	1807064-001Bmsd	SampType:	MSD	TestCode:	EPA Method 8270C TCLP					
Client ID:	Injection Well	Batch ID:	39032	RunNo:	52481					
Prep Date:	7/3/2018	Analysis Date:	7/5/2018	SeqNo:	1721130	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.068		0.1000		68.1	33.5	111	0	0	
Surr: 2-Fluorobiphenyl	0.070		0.1000		70.4	31.8	101	0	0	
Surr: 4-Terphenyl-d14	0.12		0.1000		116	17.2	84.7	0	0	S

## Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	Ics-1 99.1uS eC	SampType:	LCS	TestCode:	SM2510B: Specific Conductance					
Client ID:	LCSW	Batch ID:	R52592	RunNo:	52592					
Prep Date:		Analysis Date:	7/10/2018	SeqNo:	1725877	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	98	5.0	99.10	0	99.0	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	MB-39049	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	39049	RunNo:	52503					
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1721900	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-39049	SampType:	LCS	TestCode:	EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID:	39049	RunNo:	52503					
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1721901	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0046	0.00020	0.005000	0	92.7	80	120			

## Qualifiers:

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ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
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W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A52514	RunNo:	52514					
Prep Date:		Analysis Date:	7/7/2018	SeqNo:	1722117	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A52514	RunNo:	52514					
Prep Date:		Analysis Date:	7/7/2018	SeqNo:	1722118	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	49	1.0	50.00	0	97.6	80	120			
Magnesium	49	1.0	50.00	0	98.7	80	120			
Potassium	49	1.0	50.00	0	97.6	80	120			
Sodium	49	1.0	50.00	0	99.0	80	120			

## Qualifiers:

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	MB-39047	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID:	39047	RunNo:	52496					
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1721598	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-39047	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	39047	RunNo:	52496					
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1721599	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.49	0.020	0.5000	0	98.1	80	120			
Barium	0.48	0.020	0.5000	0	96.6	80	120			
Cadmium	0.49	0.0020	0.5000	0	98.0	80	120			
Chromium	0.50	0.0060	0.5000	0	101	80	120			
Lead	0.49	0.0050	0.5000	0	97.1	80	120			
Selenium	0.49	0.050	0.5000	0	97.7	80	120			
Silver	0.099	0.0050	0.1000	0	99.1	80	120			

Sample ID	1807064-001FMS	SampType:	MS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	39047	RunNo:	52514					
Prep Date:	7/5/2018	Analysis Date:	7/7/2018	SeqNo:	1722136	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.55	0.020	0.5000	0	109	75	125			
Cadmium	0.54	0.0020	0.5000	0	107	75	125			
Chromium	0.51	0.0060	0.5000	0	103	75	125			
Selenium	0.40	0.050	0.5000	0	80.2	75	125			
Silver	0.12	0.0050	0.1000	0.005190	117	75	125			

Sample ID	1807064-001FMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	39047	RunNo:	52514					
Prep Date:	7/5/2018	Analysis Date:	7/7/2018	SeqNo:	1722137	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.54	0.020	0.5000	0	107	75	125	1.87	20	
Cadmium	0.53	0.0020	0.5000	0	106	75	125	1.18	20	
Chromium	0.51	0.0060	0.5000	0	102	75	125	0.810	20	

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B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	1807064-001FMSD	SampType: MSD	TestCode: EPA 6010B: Total Recoverable Metals							
Client ID:	Injection Well	Batch ID: 39047	RunNo: 52514							
Prep Date:	7/5/2018	Analysis Date: 7/7/2018	SeqNo: 1722137 Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.40	0.050	0.5000	0	79.4	75	125	0.947	20	
Silver	0.12	0.0050	0.1000	0.005190	116	75	125	1.21	20	

Sample ID	1807064-001FMS	SampType: MS	TestCode: EPA 6010B: Total Recoverable Metals							
Client ID:	Injection Well	Batch ID: 39047	RunNo: 52604							
Prep Date:	7/5/2018	Analysis Date: 7/11/2018	SeqNo: 1726553 Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.47	0.0050	0.5000	0	94.8	75	125			

Sample ID	1807064-001FMSD	SampType: MSD	TestCode: EPA 6010B: Total Recoverable Metals							
Client ID:	Injection Well	Batch ID: 39047	RunNo: 52604							
Prep Date:	7/5/2018	Analysis Date: 7/11/2018	SeqNo: 1726554 Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.47	0.0050	0.5000	0	94.8	75	125	0.0127	20	

## Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

Sample ID	mb-1 alk	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R52592	RunNo:	52592					
Prep Date:		Analysis Date:	7/10/2018	SeqNo:	1725831	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-1 alk		SampType: LCS		TestCode: SM2320B: Alkalinity					
Client ID:	LCSW		Batch ID: R52592		RunNo: 52592					
Prep Date:			Analysis Date: 7/10/2018		SeqNo: 1725832		Units: mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.92	20.00	80.00	0	96.2	90	110			

Sample ID	mb-2 alk	SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW	Batch ID:	R52592		RunNo:	52592				
Prep Date:		Analysis Date:	7/10/2018		SeqNo:	1725855	Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-2 alk		SampType:	LCS		TestCode:	SM2320B: Alkalinity				
Client ID:	LCSW		Batch ID:	R52592		RunNo:	52592				
Prep Date:			Analysis Date:	7/10/2018		SeqNo:	1725856		Units: mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	77.52	20.00	80.00	0	96.9	90	110				

### Qualifiers:

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ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064  
21-Nov-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2

Sample ID	1807064-001DDUP	SampType:	DUP	TestCode:	Specific Gravity					
Client ID:	Injection Well	Batch ID:	R52536	RunNo:	52536					
Prep Date:		Analysis Date:	7/9/2018	SeqNo:	1723362	Units:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	0.9987	0						0.260	20	

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807064

21-Nov-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2

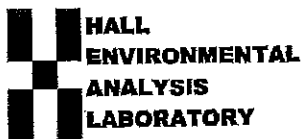
Sample ID	MB-39057	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	PBW	Batch ID:	39057	RunNo:	52508
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1722025 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0			

Sample ID	LCS-39057	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	LCSW	Batch ID:	39057	RunNo:	52508
Prep Date:	7/5/2018	Analysis Date:	7/6/2018	SeqNo:	1722026 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1010	20.0	1000	0	101 80 120

## Qualifiers:

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1807064

ReptNo: 1

Received By: Erin Melendrez

6/30/2018 10:15:00 AM

Completed By: Anne Thorne

7/3/2018 8:45:39 AM

Reviewed By:

07/03/18  
Cubated by As 07/03/18

### Chain of Custody

1. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

2. How was the sample delivered?

Courier

### Log In

3. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$

Yes ☒

No ☐

NA ☐

5. Sample(s) in proper container(s)?

Yes ☒

No ☐

6. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

7. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

8. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

9. VOA vials have zero headspace?

Yes ☒

No ☐

No VOA Vials ☐

10. Were any sample containers received broken?

Yes ☐

No ☒

11. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

13. Is it clear what analyses were requested?

Yes ☒

No ☐

14. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH: 3 2  
(5) or (12) unless noted  
Adjusted?             
Checked by: As 07/03/18

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

### 17. Cooler Information

Cooler No.	Temp. C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	3.9	Good	Yes			

# Chain-of-Custody Record

Client: **Western Refining**

Mailing Address: **50 CR 4990**

**Bloomfield, NM 87413**

Phone #: **505-632-4135**

email or Fax#:

QA/QC Package:

☒ Standard Level 4 (Full Validation)

☐ Other

☒ EDD (Type) \_\_\_\_\_

Project Manager: Kelly Robinson

Sampler: \_\_\_\_\_

On Ice ☒ Yes ☒ No

Sample Temperature: **3°C**

HEATING: **100°C**

Container Type and #

Preservative Type

3 - 500 ml Amber

3 - 500 ml Poly

3 - VOA HCL

1 - 500 ml NaOH

1 - 500 ml Zn Acetate NaOH

1 - 500 ml HNO<sub>3</sub>

1 - 120 ml HNO<sub>3</sub>

1 - 120 ml H<sub>2</sub>SO<sub>4</sub>

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

1 - 120 ml

Date: **6/29/18**

Time: **1:55**

Relinquished by: **Kelly Robinson**

Date: **6/29/18**

Time: **1:55**

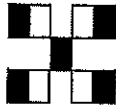
Relinquished by: **Christa Weeks**

Date: **6/29/18**

Time: **1:55**

Relinquished by: **Christa Weeks**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCBs	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
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See Attached

Remarks: See Attached

immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (see Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

## **2. GENERAL FACILITY OPERATIONS:**

**2.A. QUARTERLY MONITORING REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELL:** The Permittee shall properly conduct waste management injection operations at its facility by injecting only non-hazardous (RCRA exempt and RCRA non-hazardous, non-exempt) oil field waste fluids. Injected waste fluids shall not exhibit the RCRA characteristics, i.e., ignitability, reactivity, corrosivity, or toxicity under 40 CFR 261 Subpart "C" 261.21 - 261.24 (July 1, 1992), at the point of injection into WDW-2, based upon environmental analytical laboratory testing. Pursuant to 20.6.2.5207B, the Permittee shall provide analyses of the injected fluids at least quarterly to yield data representative of their toxicity characteristic.

The Permittee shall also analyze the injected fluids quarterly for the following characteristics:

- pH (Method 9040);
- Eh;
- Specific conductance;
- Specific gravity;
- Temperature;
- Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and,
- EPA RCRA Characteristics for Ignitability (ASTM Methods); Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).

QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0
D036	Nitrobenzene	8091 8270D	2.0
D037	Pentachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

WESTERN REFINING SOUTHWEST, INC.  
WASTE DISPOSAL WELL NO. 2

UICI-011 (WDW-2)  
July 20, 2016

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

*If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used.  
The regulatory level of total cresol is 200 mg/L.  
If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level.  
If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).*

**1. Monitor and Piezometer Wells:** Groundwater with a total dissolved solids concentration of less than 10,000 mg/L occurs at an estimated depth of approximately 10 - 30 ft. below ground surface at the WDW-2 well (hereafter, "uppermost water-bearing unit"). Groundwater monitoring well (MW) with GW sampling capability shall be installed proximal to and hydrogeologically downgradient from WDW-2 in order to monitor the uppermost water-bearing unit. The MW shall be screened (15 ft. screen with top of screen positioned 5 ft. above water table) into the uppermost water-bearing unit. The Permittee shall propose a monitoring frequency with chemical monitoring parameters in order to detect potential groundwater contamination either associated with or not associated with WDW-2.

**2.B. CONTINGENCY PLANS:** The Permittee shall implement its proposed contingency plan(s) included in its application to cope with failure of a system(s) in the Discharge Permit.

**2.C. CLOSURE:** Prior to closure of the facility, the Permittee shall submit for OCD's approval, a closure plan including a completed form C-103 for plugging and abandonment of the waste injection well. The Permittee shall plug and abandon its well pursuant to 20.6.2.5209 NMAC and as specified in Permit Condition 2.D.

- 1. Pre-Closure Notification:** Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of WDW-2. Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.
- 2. Required Information:** The Permittee shall provide OCD's Environmental Bureau with the following information in the pre-closure notification specified in Permit Condition 2.C.1:

- Name of facility;
- Address of facility;
- Name of Permittee (and owner or operator, if appropriate);







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 26, 2018

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX

RE: Injection Well WDW 2 9 28 2018

OrderNo.: 1810059

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/1/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1810059

Date Reported: 10/26/2018

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2 9 28 2018

Collection Date: 9/30/2018 4:00:00 PM

Lab ID: 1810059-001

Matrix: AQUEOUS

Received Date: 10/1/2018 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SPECIFIC GRAVITY</b>							Analyst: JRR
Specific Gravity	0.9999	0			1	10/5/2018 10:19:00 AM	R54660
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Fluoride	ND	0.50		mg/L	5	10/2/2018 3:12:43 PM	R54600
Chloride	410	25	*	mg/L	50	10/9/2018 5:24:34 PM	R54771
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/2/2018 3:12:43 PM	R54600
Bromide	1.5	0.50		mg/L	5	10/2/2018 3:12:43 PM	R54600
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/2/2018 3:12:43 PM	R54600
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/2/2018 3:12:43 PM	R54600
Sulfate	26	2.5		mg/L	5	10/2/2018 3:12:43 PM	R54600
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	2100	5.0		µmhos/c	1	10/3/2018 12:46:44 PM	R54645
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO3)	499.1	20.00		mg/L Ca	1	10/3/2018 12:46:44 PM	R54645
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/3/2018 12:46:44 PM	R54645
Total Alkalinity (as CaCO3)	499.1	20.00		mg/L Ca	1	10/3/2018 12:46:44 PM	R54645
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	1300	100	*D	mg/L	1	10/8/2018 5:22:00 PM	40832
<b>SM4500-H+B / 9040C: PH</b>							Analyst: JRR
pH	7.48		H	pH units	1	10/3/2018 12:46:44 PM	R54645
<b>EPA METHOD 7470: MERCURY</b>							Analyst: rde
Mercury	0.00045	0.00020		mg/L	1	10/8/2018 5:03:09 PM	40869
<b>EPA METHOD 6010B: DISSOLVED METALS</b>							Analyst: ELS
Calcium	100	5.0		mg/L	5	10/15/2018 11:10:46 AM	A54863
Magnesium	26	1.0		mg/L	1	10/16/2018 11:23:10 AM	A54892
Potassium	4.1	1.0		mg/L	1	10/16/2018 11:23:10 AM	A54892
Sodium	330	5.0		mg/L	5	10/16/2018 11:24:57 AM	A54892
<b>EPA 6010B: TOTAL RECOVERABLE METALS</b>							Analyst: rde
Arsenic	ND	0.020		mg/L	1	10/24/2018 10:52:29 AM	41159
Barium	0.44	0.020		mg/L	1	10/24/2018 10:52:29 AM	41159
Cadmium	ND	0.0020		mg/L	1	10/24/2018 10:52:29 AM	41159
Chromium	ND	0.0060		mg/L	1	10/24/2018 10:52:29 AM	41159
Lead	ND	0.0050		mg/L	1	10/25/2018 11:14:56 AM	41159
Selenium	ND	0.050		mg/L	1	10/24/2018 10:52:29 AM	41159
Silver	ND	0.0050		mg/L	1	10/24/2018 10:52:29 AM	41159

### EPA METHOD 8081: PESTICIDES

Analyst: TOM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1810059

Date Reported: 10/26/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2 9 28 2018

Collection Date: 9/30/2018 4:00:00 PM

Lab ID: 1810059-001

Matrix: AQUEOUS

Received Date: 10/1/2018 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES							Analyst: TOM
4,4'-DDD	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
4,4'-DDE	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
4,4'-DDT	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Aldrin	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
alpha-BHC	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
beta-BHC	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Chlordane	ND	10	D	µg/L	1	10/8/2018 2:03:51 PM	40828
delta-BHC	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Dieldrin	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Endosulfan I	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Endosulfan II	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Endosulfan sulfate	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Endrin	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Endrin aldehyde	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
gamma-BHC	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Heptachlor	ND	0.75	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Heptachlor epoxide	ND	0.50	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Methoxychlor	ND	0.80	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Toxaphene	ND	10	D	µg/L	1	10/8/2018 2:03:51 PM	40828
Surr: Decachlorobiphenyl	59.2	47.2-117	D	%Rec	1	10/8/2018 2:03:51 PM	40828
Surr: Tetrachloro-m-xylene	53.9	26.4-126	D	%Rec	1	10/8/2018 2:03:51 PM	40828
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Acenaphthylene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Aniline	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Anthracene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Azobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benz(a)anthracene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzo(a)pyrene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzo(b)fluoranthene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzo(g,h,i)perylene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzo(k)fluoranthene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzoic acid	ND	100	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Benzyl alcohol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Bis(2-chloroethoxy)methane	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Bis(2-chloroethyl)ether	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Bis(2-chloroisopropyl)ether	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Bis(2-ethylhexyl)phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Bromophenyl phenyl ether	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1810059

Date Reported: 10/26/2018

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2 9 28 2018

Collection Date: 9/30/2018 4:00:00 PM

Lab ID: 1810059-001

Matrix: AQUEOUS

Received Date: 10/1/2018 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Butyl benzyl phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Carbazole	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Chloro-3-methylphenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Chloroaniline	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Chloronaphthalene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Chlorophenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Chlorophenyl phenyl ether	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Chrysene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Di-n-butyl phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Di-n-octyl phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Dibenz(a,h)anthracene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Dibenzofuran	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
1,2-Dichlorobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
1,3-Dichlorobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
1,4-Dichlorobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
3,3'-Dichlorobenzidine	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Diethyl phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Dimethyl phthalate	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4-Dichlorophenol	ND	100	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4-Dimethylphenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4,6-Dinitro-2-methylphenol	ND	100	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4-Dinitrophenol	ND	100	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4-Dinitrotoluene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,6-Dinitrotoluene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Fluoranthene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Fluorene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Hexachlorobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Hexachlorobutadiene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Hexachlorocyclopentadiene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Hexachloroethane	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Indeno(1,2,3-cd)pyrene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Isophorone	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
1-Methylnaphthalene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Methylnaphthalene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Methylphenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
3+4-Methylphenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
N-Nitrosodi-n-propylamine	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
N-Nitrosodimethylamine	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
N-Nitrosodiphenylamine	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1810059

Date Reported: 10/26/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: Injection Well WDW 2 9 28 2018

Collection Date: 9/30/2018 4:00:00 PM

Lab ID: 1810059-001

Matrix: AQUEOUS

Received Date: 10/1/2018 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Naphthalene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Nitroaniline	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
3-Nitroaniline	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Nitroaniline	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Nitrobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2-Nitrophenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
4-Nitrophenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Pentachlorophenol	ND	100	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Phenanthrene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Phenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Pyrene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Pyridine	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
1,2,4-Trichlorobenzene	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4,5-Trichlorophenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
2,4,6-Trichlorophenol	ND	50	D	µg/L	1	10/11/2018 6:57:01 PM	40796
Surr: 2-Fluorophenol	39.9	15-74.1	D	%Rec	1	10/11/2018 6:57:01 PM	40796
Surr: Phenol-d5	29.6	15-59.8	D	%Rec	1	10/11/2018 6:57:01 PM	40796
Surr: 2,4,6-Tribromophenol	56.0	22.1-112	D	%Rec	1	10/11/2018 6:57:01 PM	40796
Surr: Nitrobenzene-d5	47.1	33.2-94	D	%Rec	1	10/11/2018 6:57:01 PM	40796
Surr: 2-Fluorobiphenyl	45.6	34-90.9	D	%Rec	1	10/11/2018 6:57:01 PM	40796
Surr: 4-Terphenyl-d14	52.3	15-149	D	%Rec	1	10/11/2018 6:57:01 PM	40796
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
2-Butanone	ND	2.0		mg/L	200	10/2/2018 9:35:00 PM	R54583
Carbon Tetrachloride	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Chlorobenzene	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Chloroform	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
1,4-Dichlorobenzene	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
1,1-Dichloroethene	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Hexachlorobutadiene	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Trichloroethene (TCE)	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Vinyl chloride	ND	0.20		mg/L	200	10/2/2018 9:35:00 PM	R54583
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	200	10/2/2018 9:35:00 PM	R54583
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	200	10/2/2018 9:35:00 PM	R54583
Surr: Dibromofluoromethane	102	70-130		%Rec	200	10/2/2018 9:35:00 PM	R54583
Surr: Toluene-d8	99.0	70-130		%Rec	200	10/2/2018 9:35:00 PM	R54583

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	B	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1810059

Date Reported: 10/26/2018

**CLIENT:** Western Refining Southwest, Inc.**Client Sample ID:** TRIP BLANK**Project:** Injection Well WDW 2 9 28 2018**Collection Date:****Lab ID:** 1810059-002**Matrix:** AQUEOUS**Received Date:** 10/1/2018 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
1,2-Dichloroethane (EDC)	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
2-Butanone	ND	0.010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Carbon Tetrachloride	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Chlorobenzene	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Chloroform	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
1,4-Dichlorobenzene	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
1,1-Dichloroethene	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Hexachlorobutadiene	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Tetrachloroethene (PCE)	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Trichloroethene (TCE)	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Vinyl chloride	ND	0.0010		mg/L	1	10/2/2018 9:59:00 PM	R54583
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	10/2/2018 9:59:00 PM	R54583
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/2/2018 9:59:00 PM	R54583
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/2/2018 9:59:00 PM	R54583
Surr: Toluene-d8	98.9	70-130		%Rec	1	10/2/2018 9:59:00 PM	R54583

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

1810059-001F INJECTION WELL

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 09/30/18 16:00

L1031298

## Wet Chemistry by Method 4500 CN E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Cyanide	ND		0.00500	1	10/07/2018 12:19	WG1176530

## Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Corrosivity by pH	7.43	T8	1		10/04/2018 14:16	WG1175923

## Sample Narrative:

L1031298-01 WG1175923: 7.43 at 13.7C

## Wet Chemistry by Method 9034-9030B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Sulfide	ND		0.0500	1	10/07/2018 18:40	WG1174567

## Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170			1	10/08/2018 17:53	WG1176582

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG1176530

Wet Chemistry by Method 4500-CN E-2011

Method Blank (MS)

## QUALITY CONTROL SUMMARY

L1031298-01

ONE LAB NATIONWIDE



IM6) R3348353-1 10/07/18 11:49

Analyte	MS Result	MS Qualifier	MS MDL	MS RDL
Reactive Cyanide	U	0.00180	0.00180	0.00500

L1031298-04 Original Sample (OS) - Duplicate (DUP)

IOS) L1030889-04 10/07/18 12:01 (DUP) R3348353-4 10/07/18 12:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Reactive Cyanide	U	0.00392	1	200	U	20

L1031298-01 Original Sample (OS) - Duplicate (DUP)

IOS) L1031298-01 10/07/18 12:10 (DUP) R3348353-7 10/07/18 12:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Reactive Cyanide	ND	0.000	1	0.000		20

Laboratory Control Sample # OS) - Laboratory Control Sample Duplicate (LCSD)

ILCS) R3348353-2 10/07/18 11:50 (LCSD) R3348353-3 10/07/18 11:51

Analyte	Spike Amount	LCSD Result	LCSD Rec.	Rec. Limits	LCSD Qualifier	RPD	RPD Limits
Reactive Cyanide	0.100	0.100	100	85.0-115	100	0.000	20

L1030940-01 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD)

IOS) L1030940-01 10/07/18 12:04 (MS) R3348353-5 10/07/18 12:05 (MSD) R3348353-6 10/07/18 12:06

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Reactive Cyanide	0.100	0.00451	0.0984	0.107	91.9	1	75-10425			5.65	20

ACCOUNT:

Hill Environmental Analysis Laboratory

PROJECT-

SDR:

L1031298

DATE/TIME:

10/09/18 16:59



ONE LAB NATIONWIDE

# QUALITY CONTROL SUMMARY

1703128-01

WG1175923

Wet Chemistry by Method 4500H+ B-2011

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCS-D)

(LCS) R3347726-1 10/04/18 14:16 - (LCS-D) R3347726-2 10/04/18 14:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCS-D Qualifier	RPD %	RPD Limits
Conductivity by pH	10.0	9.95	9.96	99.6	99.6	99.5-101			0.050	1

Sample Narrative

LCS: 9.95 at 25.1C

LCS-D: 9.96 at 21.1C



ACCOUNT:  
Hall Environmental Analysis Laboratory

PROJECT:

SDE:  
17031280

DATE/TIME:  
10/06/18 10:52

WG1174567

Wet Chemistry by Method 9034-9030B

# QUALITY CONTROL SUMMARY

U1031298-01

ONE LAB NATIONWIDE

Method Blank (MB)

IMB1 R3348414-1 10/07/18 18:37

Analyte	MB Result mg/L	MB Qualifier	MB MDL mg/L	MB RDL mg/L
Reactive Sulfide	U		0.0550	0.0500

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCS-D)

ILCS1 R3348414-2 10/07/18 18:37 • ILCS-D1 R3348414-3 10/07/18 18:37

Analyte	Spiked Amount mg/L	LCS Result mg/L	LCS Rec %	LCS-D Result mg/L	LCS-D Rec %	LCS Qualifier	LCS-D Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	0.455	91.0	0.456	91.2			0.000	20



ACCOUNT:

Hill Environmental Analysis Laboratory

PROJECT:

SDG:

U1031298

DATE/TIME:

10/05/18 15:53

WG1176582

Wet Chemistry by Method 093/1010A

# QUALITY CONTROL SUMMARY

L1031298-01

ONE LAB. NATIONWIDE



L1031673-02 Original Sample (OS) - Duplicate (DUP)

(OS) L1031673-02 10/08/18 17:53 • (DUP) R3348685-3 10/08/18 17:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 122	deg F 122	1	% 0.000		% 10

L1032242-01 Original Sample (OS) - Duplicate (DUP)

(OS) L1032242-01 10/08/18 17:53 • (DUP) R3348685-4 10/08/18 17:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Flashpoint	deg F 85.6	deg F 85.6	1	% 0.000		% 10

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3348685-2 10/08/18 17:53 • (LCSD) R3348685-2 10/08/18 17:53

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Flashpoint	deg F 82.0	deg F 91.6	deg F 81.6	% 99.5	% 99.5	% 95.0-104			% 0.000	% 10

ACCOUNT:

Hall Environmental Analysis Laboratory

PROJECT:

SDG:  
L1031298

DATE/TIME:  
10/08/18 18:53



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "NO" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

Al

8 Sc



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R54600	RunNo:	54600					
Prep Date:		Analysis Date:	10/2/2018	SeqNo:	1811003	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R54600	RunNo:	54600					
Prep Date:		Analysis Date:	10/2/2018	SeqNo:	1811004	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.5	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.5	90	110			
Bromide	2.4	0.10	2.500	0	95.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.9	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	95.8	90	110			
Sulfate	9.3	0.50	10.00	0	93.0	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R54771	RunNo:	54771					
Prep Date:		Analysis Date:	10/9/2018	SeqNo:	1818749	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R54771	RunNo:	54771					
Prep Date:		Analysis Date:	10/9/2018	SeqNo:	1818750	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.1	90	110			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	MB-40828	SampType:	MBLK	TestCode:	EPA Method 8081: PESTICIDES					
Client ID:	PBW	Batch ID:	40828	RunNo:	54724					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816365	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.075								
alpha-BHC	ND	0.075								
beta-BHC	ND	0.050								
Chlordane	ND	1.0								
delta-BHC	ND	0.075								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.075								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.075								
gamma-BHC	ND	0.075								
Heptachlor	ND	0.075								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.080								
Toxaphene	ND	1.0								
Surr: Decachlorobiphenyl	1.5		2.500		58.3	47.2	117			
Surr: Tetrachloro-m-xylene	1.3		2.500		52.1	26.4	126			

Sample ID	LCS-40828	SampType:	LCS	TestCode:	EPA Method 8081: PESTICIDES					
Client ID:	LCSW	Batch ID:	40828	RunNo:	54724					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816366	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.35	0.050	0.5000	0	70.3	48.8	145			
4,4'-DDE	0.31	0.050	0.5000	0	62.0	48.5	139			
4,4'-DDT	0.33	0.050	0.5000	0	66.9	44.7	138			
Aldrin	0.27	0.075	0.5000	0	54.4	29.4	145			
alpha-BHC	0.29	0.075	0.5000	0	58.3	45.4	146			
beta-BHC	0.34	0.050	0.5000	0	67.1	54.6	146			
delta-BHC	0.33	0.075	0.5000	0	65.5	51.6	141			
Dieldrin	0.33	0.050	0.5000	0	66.4	42.7	151			
Endosulfan I	0.30	0.050	0.5000	0	60.8	35.8	132			
Endosulfan II	0.35	0.050	0.5000	0	69.6	43.7	129			
Endosulfan sulfate	0.38	0.075	0.5000	0	75.9	46.2	148			
Endrin	0.33	0.050	0.5000	0	66.0	51.8	142			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Project: Injection Well WDW 2020

Sample ID	LCS-40828	SampType:	LCS	TestCode:	EPA Method 8081: PESTICIDES					
Client ID:	LCSW	Batch ID:	40828	RunNo:	54724					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816366	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin aldehyde	0.31	0.075	0.5000	0	62.5	32.7	158			
gamma-BHC	0.29	0.075	0.5000	0	58.1	45.9	146			
Heptachlor	0.29	0.075	0.5000	0	57.7	33.1	147			
Heptachlor epoxide	0.31	0.050	0.5000	0	62.6	49.9	144			
Methoxychlor	0.36	0.080	0.5000	0	71.3	15	198			
Surr: Decachlorobiphenyl	1.5		2.500		59.5	47.2	117			
Surr: Tetrachloro-m-xylene	1.3		2.500		52.2	26.4	126			

Surr: Tetrachloro-m-xylene

2.350

2.500

Sample ID	LCSD-40828	SampType:	LCSD	TestCode:	EPA Method 8081: PESTICIDES					
Client ID:	LCSS02	Batch ID:	40828	RunNo:	54724					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816367	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.43	0.050	0.5000	0	86.2	48.8	145	20.4	26.4	
4,4'-DDE	0.40	0.050	0.5000	0	79.0	48.5	139	24.1	25.3	
4,4'-DDT	0.41	0.050	0.5000	0	82.4	44.7	138	20.7	31	
Aldrin	0.34	0.075	0.5000	0	68.6	29.4	145	23.1	22.4	R
alpha-BHC	0.37	0.075	0.5000	0	74.0	45.4	146	23.7	11.8	R
beta-BHC	0.42	0.050	0.5000	0	83.5	54.6	146	21.7	43.2	
delta-BHC	0.41	0.075	0.5000	0	81.3	51.6	141	21.6	9.62	R
Dieldrin	0.42	0.050	0.5000	0	84.6	42.7	151	24.2	37.9	
Endosulfan I	0.39	0.050	0.5000	0	78.4	35.8	132	25.3	44.1	
Endosulfan II	0.43	0.050	0.5000	0	85.3	43.7	129	20.3	19.3	R
Endosulfan sulfate	0.45	0.075	0.5000	0	90.9	46.2	148	18.0	17.6	R
Endrin	0.42	0.050	0.5000	0	83.3	51.8	142	23.2	21.3	R
Endrin aldehyde	0.40	0.075	0.5000	0	79.5	32.7	158	24.0	15.7	R
gamma-BHC	0.37	0.075	0.5000	D	74.9	45.9	146	25.2	21.6	R
Heptachlor	0.36	0.075	0.5000	0	71.4	33.1	147	21.3	25.7	
Heptachlor epoxide	0.40	0.050	0.5000	0	79.3	49.9	144	23.6	12.8	R
Methoxychlor	0.43	0.080	0.5000	0	85.9	15	198	18.6	32.3	
Surr: Decachlorobiphenyl	1.8		2.500		72.2	47.2	117	0	20	
Surr: Tetrachloro-m-xylene	1.6		2.500		64.8	26.4	126	0	20	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R54583			RunNo: 54583					
Prep Date:		Analysis Date: 10/2/2018			SeqNo: 1810195		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	112	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R54583			RunNo: 54583					
Prep Date:		Analysis Date: 10/2/2018			SeqNo: 1810196		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
2-Butanone	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
1,1-Dichloroethene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
Tetrachloroethene (PCE)	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.5	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	ics-40796	SampType:	LCS	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	LCSW	Batch ID:	40796	RunNo:	54827					
Prep Date:	10/4/2018	Analysis Date:	10/11/2018	SeqNo:	1821078	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	75	10	100.0	0	74.9	55.1	104			
4-Chloro-3-methylphenol	150	10	200.0	0	74.9	57	115			
2-Chlorophenol	120	10	200.0	0	61.0	43.4	112			
1,4-Dichlorobenzene	60	10	100.0	0	59.8	38	95.2			
2,4-Dinitrotoluene	64	10	100.0	0	63.6	55.1	96.7			
N-Nitrosodi-n-propylamine	76	10	100.0	0	75.8	55	112			
4-Nitrophenol	81	10	200.0	0	40.7	16.6	93			
Pentachlorophenol	140	20	200.0	0	71.4	43.2	104			
Phenol	75	10	200.0	0	37.7	21.3	85.7			
Pyrene	80	10	100.0	0	79.8	64.9	105			
1,2,4-Trichlorobenzene	69	10	100.0	0	69.0	42.6	107			
Surr: 2-Fluorophenol	94		200.0		47.1	15	74.1			
Surr: Phenol-d5	72		200.0		35.9	15	59.8			
Surr: 2,4,6-Tribromophenol	170		200.0		83.2	22.1	112			
Surr: Nitrobenzene-d5	71		100.0		71.0	33.2	94			
Surr: 2-Fluorobiphenyl	77		100.0		76.7	34	90.9			
Surr: 4-Terphenyl-d14	82		100.0		82.2	15	149			

Sample ID	icsd-40796	SampType:	LCS	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	LCS02	Batch ID:	40796	RunNo:	54827					
Prep Date:	10/4/2018	Analysis Date:	10/11/2018	SeqNo:	1821079	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	75	10	100.0	0	75.4	55.1	104	0.692	34.9	
4-Chloro-3-methylphenol	150	10	200.0	0	72.7	57	115	3.01	30.2	
2-Chlorophenol	140	10	200.0	0	69.8	43.4	112	13.6	49.5	
1,4-Dichlorobenzene	68	10	100.0	0	67.6	38	95.2	12.2	43.2	
2,4-Dinitrotoluene	67	10	100.0	0	66.9	55.1	96.7	5.00	49.9	
N-Nitrosodi-n-propylamine	76	10	100.0	0	76.1	55	112	0.369	42.1	
4-Nitrophenol	78	10	200.0	0	39.2	16.6	93	3.75	31.5	
Pentachlorophenol	130	20	200.0	0	63.5	43.2	104	11.8	52.5	
Phenol	83	10	200.0	0	41.5	21.3	85.7	9.56	54.4	
Pyrene	79	10	100.0	0	78.6	64.9	105	1.54	30.7	
1,2,4-Trichlorobenzene	78	10	100.0	0	77.7	42.6	107	12.0	48.1	
Surr: 2-Fluorophenol	100		200.0		50.9	15	74.1	0	0	
Surr: Phenol-d5	81		200.0		40.5	15	59.8	0	0	
Surr: 2,4,6-Tribromophenol	150		200.0		75.5	22.1	112	0	0	
Surr: Nitrobenzene-d5	81		100.0		81.4	33.2	94	0	0	
Surr: 2-Fluorobiphenyl	80		100.0		80.0	34	90.9	0	0	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	icsd-40796	SampType:	LCSD	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02	Batch ID:	40796	RunNo:	54827					
Prep Date:	10/4/2018	Analysis Date:	10/11/2018	SeqNo:	1821079	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sum: 4-Terphenyl-d14	78		100.0		78.5	15	149	0	0	

Sample ID	mb-40796	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	40796	RunNo:	54827					
Prep Date:	10/4/2018	Analysis Date:	10/11/2018	SeqNo:	1821081	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Sample ID	mb-40796	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	40796	RunNo:	54827					
Prep Date:	10/4/2018	Analysis Date:	10/11/2018	SeqNo:	1821081	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								

## Qualifiers:

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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	mb-40796		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 40796		RunNo: 54827					
Prep Date:	10/4/2018		Analysis Date: 10/11/2018		SeqNo: 1821081		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	70		200.0		35.0	15	74.1			
Surr: Phenol-d5	54		200.0		26.9	15	59.8			
Surr: 2,4,6-Tribromophenol	110		200.0		55.7	22.1	112			
Surr: Nitrobenzene-d5	53		100.0		53.3	33.2	94			
Surr: 2-Fluorobiphenyl	51		100.0		50.6	34	90.9			
Surr: 4-Terphenyl-d14	78		100.0		78.4	15	149			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
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P Sample pH Not In Range  
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

**Client:** Western Refining Southwest, Inc.  
**Project:** Injection Well WDW 2 9 28 2018

Sample ID	ics-1 98.3uS eC	SampType:	LCS	TestCode:	SM2510B: Specific Conductance					
Client ID:	LCSW	Batch ID:	R54645	RunNo:	54645					
Prep Date:		Analysis Date:	10/3/2018	SeqNo:	1812552	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	5.0	98.30	0	100	80	120			

## Qualifiers:

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
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RL Reporting Detection Limit  
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

**Client:** Western Refining Southwest, Inc.  
**Project:** Injection Well WDW 2 9 28 2018

Sample ID	MB-40869	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	40869	RunNo:	54722					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1815879	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-40869	SampType:	LCS	TestCode:	EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID:	40869	RunNo:	54722					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1815880	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0045	0.00020	0.005000	0	90.8	80	120			

Sample ID	1810059-001EMS	SampType:	MS	TestCode:	EPA Method 7470: Mercury					
Client ID:	Injection Well	Batch ID:	40869	RunNo:	54722					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1815882	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0.0004539	90.9	75	125			

Sample ID	1810059-001EMSD	SampType:	MSD	TestCode:	EPA Method 7470: Mercury					
Client ID:	Injection Well	Batch ID:	40869	RunNo:	54722					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1815883	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0.0004539	95.1	75	125	4.17	20	

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A54863	RunNo:	54863					
Prep Date:		Analysis Date:	10/15/2018	SeqNo:	1823054	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A54863	RunNo:	54863					
Prep Date:		Analysis Date:	10/15/2018	SeqNo:	1823055	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.4	80	120			

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A54892	RunNo:	54892					
Prep Date:		Analysis Date:	10/16/2018	SeqNo:	1824482	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A54892	RunNo:	54892					
Prep Date:		Analysis Date:	10/16/2018	SeqNo:	1824483	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	49	1.0	50.00	0	97.4	80	120			
Potassium	48	1.0	50.00	0	96.6	80	120			
Sodium	49	1.0	50.00	0	98.9	80	120			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	MB-41159	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID:	41159	RunNo:	55122					
Prep Date:	10/23/2018	Analysis Date:	10/24/2018	SeqNo:	1832539	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-41159	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	41159	RunNo:	55122					
Prep Date:	10/23/2018	Analysis Date:	10/24/2018	SeqNo:	1832540	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.50	0.020	0.5000	0	99.9	80	120			
Barium	0.51	0.020	0.5000	0	101	80	120			
Cadmium	0.51	0.0020	0.5000	0	103	80	120			
Chromium	0.48	0.0060	0.5000	0	96.6	80	120			
Selenium	0.50	0.050	0.5000	0	99.2	80	120			
Silver	0.11	0.0050	0.1000	0	107	80	120			

Sample ID	1810059-001EMS	SampType:	MS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	41159	RunNo:	55122					
Prep Date:	10/23/2018	Analysis Date:	10/24/2018	SeqNo:	1832543	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.48	0.020	0.5000	0	96.1	75	125			
Barium	0.87	0.020	0.5000	0.4366	86.0	75	125			
Cadmium	0.51	0.0020	0.5000	0	103	75	125			
Chromium	0.49	0.0060	0.5000	0.004390	96.3	75	125			
Selenium	0.47	0.050	0.5000	0	94.2	75	125			
Silver	0.11	0.0050	0.1000	0.002290	110	75	125			

Sample ID	1810059-001EMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	41159	RunNo:	55122					
Prep Date:	10/23/2018	Analysis Date:	10/24/2018	SeqNo:	1832544	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.50	0.020	0.5000	0	99.9	75	125	3.83	20	
Barium	0.89	0.020	0.5000	0.4366	90.2	75	125	2.40	20	
Cadmium	0.51	0.0020	0.5000	0	103	75	125	0.376	20	
Chromium	0.49	0.0060	0.5000	0.004390	96.2	75	125	0.0412	20	

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Project: Injection Well W-17-23-20-1019

Sample ID	1810059-001EMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	41159	RunNo:	55122					
Prep Date:	10/23/2018	Analysis Date:	10/24/2018	SeqNo:	1832544	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.47	0.050	0.5000	0	93.0	75	125	1.27	20	
Silver	0.11	0.0050	0.1000	0.002290	110	75	125	0.606	20	

Silver		0.11	0.0000	0.0000						
Sample ID	MB-41159	SampType: MBLK			TestCode: EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID: 41159			RunNo: 55160					
Prep Date:	10/23/2018	Analysis Date: 10/25/2018			SeqNo: 1833997		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.0050								

Sample ID	LCS-41159	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	41159	RunNo:	55160					
Prep Date:	10/23/2018	Analysis Date:	10/25/2018	SeqNo:	1833998	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.48	0.0050	0.5000	0	96.6	80	120			

Sample ID	1810059-001EMS	SampType:	MS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	41159	RunNo:	55160					
Prep Date:	10/23/2018	Analysis Date:	10/25/2018	SeqNo:	1834001	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.48	0.0050	0.5000	0	95.7	75	125			

Sample ID	1810059-001EMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well	Batch ID:	41159	RunNo:	55160					
Prep Date:	10/23/2018	Analysis Date:	10/25/2018	SeqNo:	1834002	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.46	0.0050	0.5000	0	91.6	75	125	4.30	20	

## Qualifiers:

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	mb-1 alk		SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW		Batch ID:	R54645		RunNo:	54645				
Prep Date:			Analysis Date:	10/3/2018		SeqNo:	1812578		Units:		mg/L CaCO3
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20.00									

Sample ID	ics-1 alk		SampType:	LCS		TestCode:	SM2320B: Alkalinity				
Client ID:	LCSW		Batch ID:	R54645		RunNo:	54645				
Prep Date:			Analysis Date:	10/3/2018		SeqNo:	1812579		Units: mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	76.60	20.00	80.00	0	95.8	90	110				

Sample ID	mb-2 alk	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R54645	RunNo:	54645					
Prep Date:		Analysis Date:	10/3/2018	SeqNo:	1812602					
				Units:	mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	ics-2 alk	SampType:	LCS	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R54645	RunNo:	54645					
Prep Date:		Analysis Date:	10/3/2018	SeqNo:	1812603					
				Units:	mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.80	20.00	80.00	0	97.3	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 9 28 2018

Sample ID	1810059-001CDUP	SampType:	DUP	TestCode:	Specific Gravity						
Client ID:	Injection Well	Batch ID:	R54660	RunNo:	54660						
Prep Date:		Analysis Date:	10/5/2018	SeqNo:	1813563	Units:					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Specific Gravity	1.002	0						0.180	20		

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810059

26-Oct-18

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 9 28 2018

Sample ID	MB-40832	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	PBW	Batch ID:	40832	RunNo:	54720
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815805 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0			

Sample ID	LCS-40832	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	LCSW	Batch ID:	40832	RunNo:	54720
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815806 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1010	20.0	1000	0	101 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87106  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1810059

ReptNo: 1

Received By: Anne Thorne

10/1/2018 6:45:00 AM

Completed By: Ashley Gallegos

10/1/2018 4:59:12 PM

Reviewed By: VVZ 10/2/18

labeled by: JAB 10/02/18

### Chain of Custody

1. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

2. How was the sample delivered?

Client

### Log In

3. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ?

Yes ☒

No ☐

NA ☐

5. Sample(s) in proper container(s)?

Yes ☒

No ☐

6. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

7. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

8. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

9. VOA vials have zero headspace?

Yes ☒

No ☐

No VOA Vials ☐

10. Were any sample containers received broken?

Yes ☐

No ☒

11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody)

Yes ☒

No ☐

12. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

13. Is it clear what analyses were requested?

Yes ☒

No ☐

14. Were all holding times able to be met?  
(If no, notify customer for authorization.)

Yes ☒

No ☐

# of preserved  
bottles checked  
for pH: 2:1

(<2 or >18 unless noted)

Adjusted? No

Checked by: JAB 10/02/18

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client instructions:

16. Additional remarks:

Dissolved metals Filtered in lab. Trip Blank provided by lab returned by client

17. Cooler Information

Cooler No.	Temp. °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.7	Good	Yes			

# Chain-of-Custody Record

Client: Western Refining

Mailing Address: 50 CR 4990

Bloomfield, NM 87413

Phone #: 505-632-4135

email or Fax#:

QA/QC Package:

X Standard Level 4 (Full Validation)

Other

X EDD (Type)

Turn-Around Time:

X Standard ☐ Rush

Project Name: Injection Well WDW #2

9/28/2018

Project #: PO#12622865

Project Manager: Kelly Robinson

Sampler: k. robinson

Office: ☒ Yes ☐ No

Sample Temperature: 21.2°C (70.2°F)

Container Type and #

Preservative Type

3 -500 ml Amber

3 -500 ml Poly

3 -VOA HCL

1 -500 ml NaOH

1 -500 ml Zn Acetate NaOH

1 -500 ml HNO<sub>3</sub>

1 -120 ml HNO<sub>3</sub>

1 -120 ml H<sub>2</sub>SO<sub>4</sub>

(3) VOA HCL

-002

Received by: *Kelly Robinson*

Date: 10/01/18

Time: 530

Relinquished by: *Kelly Robinson*

Date: 10/01/18

Time: 530

Relinquished by:

Date:

Time:

Remarks: See Attached

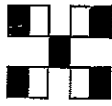
See Attached

Remarks: See Attached

Remarks: See Attached

Remarks: See Attached

Remarks: See Attached



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX + MTBE + TMB's (8021)

BTX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH (8310 or 8270SIMS)

RCRA 8 Metals

Anions (F<sup>-</sup>, Cl<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, NO<sub>2</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, SO<sub>4</sub><sup>2-</sup>)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (see Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

## **2. GENERAL FACILITY OPERATIONS:**

**2.A. QUARTERLY MONITORING REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELL:** The Permittee shall properly conduct waste management injection operations at its facility by injecting only non-hazardous (RCRA exempt and RCRA non-hazardous, non-exempt) oil field waste fluids. Injected waste fluids shall not exhibit the RCRA characteristics, i.e., ignitability, reactivity, corrosivity, or toxicity under 40 CFR 261 Subpart "C" 261.21 - 261.24 (July 1, 1992), at the point of injection into WDW-2, based upon environmental analytical laboratory testing. Pursuant to 20.6.2.5207B, the Permittee shall provide analyses of the injected fluids at least quarterly to yield data representative of their toxicity characteristic.

The Permittee shall also analyze the injected fluids quarterly for the following characteristics:

- pH (Method 9040);
- Eh;
- Specific conductance;
- Specific gravity;
- Temperature;
- Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and,
- EPA RCRA Characteristics for Ignitability (ASTM Methods); Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).



QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0
D036	Nitrobenzene	8091 8270D	2.0
D037	Pentachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

WESTERN REFINING SOUTHWEST, INC.  
WASTE DISPOSAL WELL NO. 2

UICL-011 (WDW-2)  
July 20, 2016

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

*If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used.  
The regulatory level of total cresol is 200 mg/L.  
If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level.  
If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).*

**1. Monitor and Piezometer Wells:** Groundwater with a total dissolved solids concentration of less than 10,000 mg/L occurs at an estimated depth of approximately 10 - 30 ft. below ground surface at the WDW-2 well (hereafter, "uppermost water-bearing unit"). Groundwater monitoring well (MW) with GW sampling capability shall be installed proximal to and hydrogeologically downgradient from WDW-2 in order to monitor the uppermost water-bearing unit. The MW shall be screened (15 ft. screen with top of screen positioned 5 ft. above water table) into the uppermost water-bearing unit. The Permittee shall propose a monitoring frequency with chemical monitoring parameters in order to detect potential groundwater contamination either associated with or not associated with WDW-2.

**2.B. CONTINGENCY PLANS:** The Permittee shall implement its proposed contingency plan(s) included in its application to cope with failure of a system(s) in the Discharge Permit.

**2.C. CLOSURE:** Prior to closure of the facility, the Permittee shall submit for OCD's approval, a closure plan including a completed form C-103 for plugging and abandonment of the waste injection well. The Permittee shall plug and abandon its well pursuant to 20.6.2.5209 NMAC and as specified in Permit Condition 2.D.

**1. Pre-Closure Notification:** Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of WDW-2. Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.

**2. Required Information:** The Permittee shall provide OCD's Environmental Bureau with the following information in the pre-closure notification specified in Permit Condition 2.C.1:

- Name of facility;
- Address of facility;
- Name of Permittee (and owner or operator, if appropriate);





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 17, 2019

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX

RE: Injection Well WDW 2 12 28 2018

OrderNo.: 1812E85

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/29/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1812E85

Date Reported: 1/17/2019

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well #2

Project: Injection Well WDW 2 12 28 2018

Collection Date: 12/28/2018 10:30:00 AM

Lab ID: 1812E85-001

Matrix: AQUEOUS

Received Date: 12/29/2018 4:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8081: PESTICIDES TCLP</b>							Analyst: JME
Chlordane	ND	0.030		mg/L	1	1/9/2019 9:21:12 AM	42425
Endrin	ND	0.020		mg/L	1	1/9/2019 9:21:12 AM	42425
gamma-BHC (Lindane)	ND	0.40		mg/L	1	1/9/2019 9:21:12 AM	42425
Heptachlor	ND	0.0080		mg/L	1	1/9/2019 9:21:12 AM	42425
Heptachlor epoxide	ND	0.0080		mg/L	1	1/9/2019 9:21:12 AM	42425
Methoxychlor	ND	10		mg/L	1	1/9/2019 9:21:12 AM	42425
Toxaphene	ND	0.50		mg/L	1	1/9/2019 9:21:12 AM	42425
Surr: Decachlorobiphenyl	45.4	47.2-117	S	%Rec	1	1/9/2019 9:21:12 AM	42425
Surr: Tetrachloro-m-xylene	40.1	26.4-126		%Rec	1	1/9/2019 9:21:12 AM	42425
<b>EPA METHOD 8270C TCLP</b>							Analyst: DAM
2-Methylphenol	ND	200		mg/L	1	1/9/2019 12:05:33 PM	42420
3+4-Methylphenol	ND	200		mg/L	1	1/9/2019 12:05:33 PM	42420
2,4-Dinitrotoluene	ND	0.13		mg/L	1	1/9/2019 12:05:33 PM	42420
Hexachlorobenzene	ND	0.13		mg/L	1	1/9/2019 12:05:33 PM	42420
Hexachlorobutadiene	ND	0.50		mg/L	1	1/9/2019 12:05:33 PM	42420
Hexachloroethane	ND	3.0		mg/L	1	1/9/2019 12:05:33 PM	42420
Nitrobenzene	ND	2.0		mg/L	1	1/9/2019 12:05:33 PM	42420
Pentachlorophenol	ND	100		mg/L	1	1/9/2019 12:05:33 PM	42420
Pyridine	ND	5.0		mg/L	1	1/9/2019 12:05:33 PM	42420
2,4,5-Trichlorophenol	ND	400		mg/L	1	1/9/2019 12:05:33 PM	42420
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	1/9/2019 12:05:33 PM	42420
Cresols, Total	ND	200		mg/L	1	1/9/2019 12:05:33 PM	42420
Surr: 2-Fluorophenol	42.7	15-73.6		%Rec	1	1/9/2019 12:05:33 PM	42420
Surr: Phenol-d5	32.6	15-63.4		%Rec	1	1/9/2019 12:05:33 PM	42420
Surr: 2,4,6-Tribromophenol	35.9	15-119		%Rec	1	1/9/2019 12:05:33 PM	42420
Surr: Nitrobenzene-d5	42.4	33.5-111		%Rec	1	1/9/2019 12:05:33 PM	42420
Surr: 2-Fluorobiphenyl	26.3	31.8-101	S	%Rec	1	1/9/2019 12:05:33 PM	42420
Surr: 4-Terphenyl-d14	37.9	17.2-84.7		%Rec	1	1/9/2019 12:05:33 PM	42420
<b>SPECIFIC GRAVITY</b>							Analyst: JRR
Specific Gravity	0.9991	0			1	1/8/2019 10:12:00 AM	R56827
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Fluoride	ND	2.0		mg/L	20	1/4/2019 12:49:52 PM	R56793
Chloride	1900	100	*	mg/L	200	1/15/2019 12:16:51 AM	R56999
Bromide	6.6	0.50		mg/L	5	1/4/2019 12:37:00 PM	R56793
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	1/4/2019 12:37:00 PM	R56793
Sulfate	66	2.5		mg/L	5	1/4/2019 12:37:00 PM	R56793
Nitrate+Nitrite as N	ND	2.0		mg/L	10	1/15/2019 12:29:43 AM	R56999

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# Analytical Report

Lab Order 1812E85

Date Reported: 1/17/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well #2

Project: Injection Well WDW 2 12 28 2018

Collection Date: 12/28/2018 10:30:00 AM

Lab ID: 1812E85-001

Matrix: AQUEOUS

Received Date: 12/29/2018 4:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	6600	5.0		µmhos/c	1	1/2/2019 2:30:50 PM	R56730
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO <sub>3</sub> )	731.6	20.00		mg/L Ca	1	1/2/2019 2:30:50 PM	R56730
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	1/2/2019 2:30:50 PM	R56730
Total Alkalinity (as CaCO <sub>3</sub> )	731.6	20.00		mg/L Ca	1	1/2/2019 2:30:50 PM	R56730
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	4360	100	*D	mg/L	1	1/2/2019 12:36:00 PM	42396
<b>EPA METHOD 7470: MERCURY</b>							Analyst: pmf
Mercury	ND	0.020		mg/L	1	1/10/2019 1:46:44 PM	42524
<b>EPA METHOD 6010B: DISSOLVED METALS</b>							Analyst: rde
Calcium	87	1.0		mg/L	1	1/4/2019 1:37:27 PM	A56777
Magnesium	61	1.0		mg/L	1	1/4/2019 1:37:27 PM	A56777
Potassium	22	1.0		mg/L	1	1/4/2019 1:37:27 PM	A56777
Sodium	1300	20		mg/L	20	1/4/2019 2:04:42 PM	A56777
<b>EPA 6010B: TOTAL RECOVERABLE METALS</b>							Analyst: rde
Arsenic	ND	5.0		mg/L	1	1/9/2019 4:30:09 PM	42405
Barium	ND	100		mg/L	1	1/9/2019 4:30:09 PM	42405
Cadmium	ND	1.0		mg/L	1	1/9/2019 4:30:09 PM	42405
Chromium	ND	5.0		mg/L	1	1/9/2019 4:30:09 PM	42405
Lead	ND	5.0		mg/L	1	1/9/2019 4:30:09 PM	42405
Selenium	ND	1.0		mg/L	1	1/9/2019 4:30:09 PM	42405
Silver	ND	5.0		mg/L	1	1/9/2019 4:30:09 PM	42405
<b>TCPLP VOLATILES BY 8260B</b>							Analyst: DJF
Benzene	ND	0.50		mg/L	200	1/3/2019 12:13:48 AM	T56703
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	1/3/2019 12:13:48 AM	T56703
2-Butanone	ND	200		mg/L	200	1/3/2019 12:13:48 AM	T56703
Carbon Tetrachloride	ND	0.50		mg/L	200	1/3/2019 12:13:48 AM	T56703
Chloroform	ND	6.0		mg/L	200	1/3/2019 12:13:48 AM	T56703
1,4-Dichlorobenzene	ND	7.5		mg/L	200	1/3/2019 12:13:48 AM	T56703
1,1-Dichloroethene	ND	0.70		mg/L	200	1/3/2019 12:13:48 AM	T56703
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	1/3/2019 12:13:48 AM	T56703
Trichloroethene (TCE)	ND	0.50		mg/L	200	1/3/2019 12:13:48 AM	T56703
Vinyl chloride	ND	0.20		mg/L	200	1/3/2019 12:13:48 AM	T56703
Chlorobenzene	ND	100		mg/L	200	1/3/2019 12:13:48 AM	T56703
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	200	1/3/2019 12:13:48 AM	T56703
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	200	1/3/2019 12:13:48 AM	T56703

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1812E85

Date Reported: 1/17/2019

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well #2

Project: Injection Well WDW 2 12 28 2018

Collection Date: 12/28/2018 10:30:00 AM

Lab ID: 1812E85-001

Matrix: AQUEOUS

Received Date: 12/29/2018 4:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
TCLP VOLATILES BY 8260B							Analyst: DJF
Surr: Dibromofluoromethane	105	70-130	%Rec	200	1/3/2019 12:13:48 AM	T56703	
Surr: Toluene-d8	106	70-130	%Rec	200	1/3/2019 12:13:48 AM	T56703	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

1812E85-001F INJECTION WELL #2

Collected date/time: 12/28/18 10:30

## SAMPLE RESULTS - 01

L1057646

ONE LAB. NATIONWIDE.



## Wet Chemistry by Method 4500 CN E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Cyanide	mg/l		mg/l			
	ND		0.00500	1	01/07/2019 11:18	WG1219523

## Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Corrosivity by pH	su					
	7.13	I8	1		01/04/2019 14:29	WG1219005

## Sample Narrative:

L1057646-01 WG1219005: 7.13 at 19C

## Wet Chemistry by Method 9034-9030B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Sulfide	mg/l		mg/l			
	ND	Q	0.500	10	01/09/2019 14:26	WG1221135

## Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Flashpoint	deg F					
	DNF at 170		1		01/05/2019 14:38	WG1219441

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

1 Al

2 Sc

ACCOUNT:

Half Environmental Analysis Laboratory

PROJECT:

SDG:

L1057646

DATE/TIME:

01/10/19 09:29



1812E85-001G INJECTION WELL #2

Collected date/time: 12/28/18 18:35

## SAMPLE RESULTS - 02

11057646

ONE LAB NATIONWIDE



Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
ORP	84.9	<u>LX</u>	1	01/14/2019 13:35	<u>18G123175</u>

<sup>2</sup>Tr<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>ScACCOUNT:  
Hall Environmental Analysis Laboratory

PROJECT:

SDG:  
11057646DATE/TIME:  
01/10/19 09:29

WG1219175

Wet Chemistry by Method 2580

## QUALITY CONTROL SUMMARY

105764-02



ONE LAB NATIONWIDE

L105764-02 Original Sample (OS) - Duplicate (DUP)

(OS) L1057641-02 01/04/19 13:35 - (DUP) R3373426-2 01/04/19 13:35

Analyte	Original Result		DUP Result		Dilution		DUP RPD		DUP Qualifier		DUP RPD Limits	
	mV		mV			%		%		%	%	
ORP	195		195		1	0.512					20	

### Laboratory Control Sample (LCS)

(LCS) R3373426-1 01/04/19 13:35

Analyte	Spike Amount		LCS Result		LCS Rec.		Rec. Limits		LCS Qualifier	
	mV		mV		%		%			
ORP	228		228		100		95.7-104			

TC
SS
Cn
St
Qc
Gl
Al
Sc

ACCOUNT:  
Hall Environmental Analysis Laboratory

PROJECT:

SIG:  
L1057646

DATE/TIME:  
01/04/19 09:29

WG1219523

Wet Chemistry by Method 4500 CN E-2011

Method Blank (MS)

## QUALITY CONTROL SUMMARY

L1057604-01

ONE LAB NATIONWIDE

(MS) R3373834-1 01/07/19 10:55

Analyte	MS Result	MS Qualifier	MS MDL	MS RDL
Reactive Cyanide	U	0.00380	mg/L	0.00500

L1057604-01 Original Sample (OS) - Duplicate (DUP)

(OS) L1057604-01 01/07/19 11:02 - (DUP) R3373834-3 01/07/19 11:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Reactive Cyanide	ND	0.000	1	0.000	%	20

L1057605-02 Original Sample (OS) - Duplicate (DUP)

(OS) L1057605-02 01/07/19 11:25 - (DUP) R3373834-5 01/07/19 11:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Reactive Cyanide	ND	0.000	1	0.000	%	20

Laboratory Control Sample (LCS)

(LCS) R3373834-2 01/07/19 10:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Reactive Cyanide	0.100	0.101	101	85.0-115	

L1057604-02 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD)

(OS) L1057604-02 01/07/19 11:13 - (MS) R3373834-4 01/07/19 11:14 - (MSD) R3373834-5 01/07/19 11:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Reactive Cyanide	0.100	U	0.0882	0.0948	94.8	1	75.0-125	%	7.21	%	20

L1058022-01 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD)

(OS) L1058022-01 01/07/19 11:30 - (MS) R3373834-7 01/07/19 11:31 - (MSD) R3373834-8 01/07/19 11:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Reactive Cyanide	0.100	ND	0.0948	0.0967	94.8	1	75.0-125	%	1.58	%	20

ACCOUNT:

Hall Environmental Analysis Laboratory

PROJECT:

SOP:

L1057604-01

DATE/TIME:

01/07/19 09:29

WG1219005

Wet Chemistry by Method 4500H+ B-2011

-Laboratory Control Sample (LCS)

ILCSJ R3373443-1 01/04/19 14:29

Analyte	Spike Amount		LCS Result	LCS Recd.	Rec. Limits	LCS Qualifier
	SV	su		%	%	
Corrosivity by pH	10.0	9.98		99.8	98.0-101	

Sample Narrative:

LCS 9.98 at 18.6C

## QUALITY CONTROL SUMMARY

11857646-01

ONE LAB. NATIONWIDE



TC	SS	Ch	St	De	Gl	Al	Sc
----	----	----	----	----	----	----	----

ACCOUNT:

Hol Environmental Analysis Laboratory

PROJECT:

SDG:

LIC57648

DATETIME:

01/03/19 09:29

WG1221135

Wet Chemistry by Method 9034-90303

Method Blank (MB)

IMB1 R23745911 070919 14:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB MDL mg/l
Reactive Sulfide	U		0.00650	0.0500

Laboratory Control Sample (LCS)

ILCS1 R33745912 070919 14:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.453	90.6	85.0-115	

# QUALITY CONTROL SUMMARY

LCS: 84.6-01

ONE LAST CHANCE

SS  
On  
SI  
GL  
SC

ACCOUNT:  
Hall Environmental Analysis Laboratory

PROJECT:

SDG:  
L1057646

DATE/TIME:  
07/09/19 09:29

WG1219441

Wet Chemistry by Method DS3/1016A

# QUALITY CONTROL SUMMARY

L1057646-01

ONE LINE NATIONAL WLF

L1057641-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1057641-01 010519 14:38 • (DUP) R337557-2 010519 14:38

Analyte	Original Result		DUP Result		DUP RPD		DUP Qualifier		DUP RPD Limits	
	deg F	deg F	deg F	deg F	%	%	%	%	%	%
Flashpoint	DNF at 100	DNF at 100	DNF at 100	DNF at 100	1	0.000			10	10

## Laboratory Control Sample (LCS)

LCS R337557-3 010519 14:38

Analyte	Spike Amount		LCS Result		LCS Rec		Rec Limits		LCS Qualifier	
	deg F	deg F	deg F	deg F	%	%	%	%	%	%
Flashpoint	82.0	82.7	82.7	82.7	100	96.0-104				

OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS
----	----	----	----	----	----	----	----	----	----	----

ACCOUNT  
Hall Environmental Analysis Laboratory

PROJECT:

SOS:  
L1057646

DATE/TIME:  
010519 14:29

# GLOSSARY OF TERMS

ONE LAB FOR COLORADO



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Level). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

O	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
TB	Sample(s) received past too close to holding time expiration.



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R56793	RunNo:	56793					
Prep Date:		Analysis Date:	1/4/2019	SeqNo:	1900898	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R56793	RunNo:	56793					
Prep Date:		Analysis Date:	1/4/2019	SeqNo:	1900899	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Bromide	2.4	0.10	2.500	0	94.6	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	94.1	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R56999	RunNo:	56999					
Prep Date:		Analysis Date:	1/14/2019	SeqNo:	1906790	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R56999	RunNo:	56999					
Prep Date:		Analysis Date:	1/14/2019	SeqNo:	1906791	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	MB-42425	SampType:	MBLK	TestCode:	EPA Method 8081: Pesticides TCLP					
Client ID:	PBW	Batch ID:	42425	RunNo:	56860					
Prep Date:	1/3/2019	Analysis Date:	1/9/2019	SeqNo:	1902962	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Endrin	ND	0.020								
gamma-BHC (Lindane)	ND	0.40								
Heptachlor	ND	0.0080								
Heptachlor epoxide	ND	0.0080								
Methoxychlor	ND	10								
Toxaphene	ND	0.50								
Surr: Decachlorobiphenyl	0.0015		0.002500		59.2	47.2	117			
Surr: Tetrachloro-m-xylene	0.0014		0.002500		54.6	26.4	126			

Sample ID	LCS-42425	SampType:	LCS	TestCode:	EPA Method 8081: Pesticides TCLP					
Client ID:	LCSW	Batch ID:	42425	RunNo:	56860					
Prep Date:	1/3/2019	Analysis Date:	1/9/2019	SeqNo:	1902963	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00046	0.00010	0.0005000	0	92.0	51.8	142			
gamma-BHC (Lindane)	0.00040	0.00010	0.0005000	0	79.7	40.3	144			
Heptachlor	0.00039	0.00010	0.0005000	0	78.0	33.1	147			
Heptachlor epoxide	0.00042	0.00010	0.0005000	0	83.6	49.9	144			
Methoxychlor	0.00032	0.00010	0.0005000	0	64.7	15	198			
Surr: Decachlorobiphenyl	0.0017		0.002500		69.4	47.2	117			
Surr: Tetrachloro-m-xylene	0.0015		0.002500		61.6	26.4	126			

Sample ID	LCSD-42425	SampType:	LCSD	TestCode:	EPA Method 8081: Pesticides TCLP					
Client ID:	LCSS02	Batch ID:	42425	RunNo:	56860					
Prep Date:	1/3/2019	Analysis Date:	1/9/2019	SeqNo:	1902964	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00036	0.00010	0.0005000	0	71.2	51.8	142	25.5	21.3	R
gamma-BHC (Lindane)	0.00029	0.00010	0.0005000	0	58.9	40.3	144	30.1	21.6	R
Heptachlor	0.00031	0.00010	0.0005000	0	62.8	33.1	147	21.6	25.7	
Heptachlor epoxide	0.00031	0.00010	0.0005000	0	62.6	49.9	144	28.8	12.8	R
Methoxychlor	0.00031	0.00010	0.0005000	0	62.7	15	198	3.00	32.3	
Surr: Decachlorobiphenyl	0.0014		0.002500		54.4	47.2	117	0	0	
Surr: Tetrachloro-m-xylene	0.0014		0.002500		55.6	26.4	126	0	0	

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	rb	SampType:	MBLK	TestCode:	TCLP Volatiles by 8260B					
Client ID:	PBW	Batch ID:	T56703	RunNo:	56703					
Prep Date:		Analysis Date:	1/2/2019	SeqNo:	1898710	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		100	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		99.8	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		104	70	130			
Surr: Toluene-d8	0.010		0.01000		105	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	TCLP Volatiles by 8260B					
Client ID:	LCSW	Batch ID:	T56703	RunNo:	56703					
Prep Date:		Analysis Date:	1/2/2019	SeqNo:	1898711	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.017	0.0050	0.02000	0	84.3	70	130			
1,1-Dichloroethene	0.019	0.0050	0.02000	0	96.7	70	130			
Trichloroethene (TCE)	0.016	0.0050	0.02000	0	81.2	70	130			
Chlorobenzene	0.019	0.0050	0.02000	0	93.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.0093		0.01000		92.6	70	130			
Surr: 4-Bromofluorobenzene	0.011		0.01000		105	70	130			
Surr: Dibromofluoromethane	0.0099		0.01000		99.1	70	130			
Surr: Toluene-d8	0.010		0.01000		99.5	70	130			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	ics-1 99.0uS eC		SampType:	LCS		TestCode:	SM2510B: Specific Conductance				
Client ID:	LCSW		Batch ID:	R56730		RunNo:	56730				
Prep Date:			Analysis Date:	1/2/2019		SeqNo:	1898774		Units:	µmhos/cm	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Conductivity	99	5.0	99.00	0	100	80	120				

Sample ID	ics-2 99.0uS eC	SampType:	LCS	TestCode:	SM2510B: Specific Conductance					
Client ID:	LCSW	Batch ID:	R56730	RunNo:	56730					
Prep Date:		Analysis Date:	1/2/2019	SeqNo:	1898798	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	5.0	99.00	0	101	80	120			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Project: Injection Well MW-12-12-2019										
Sample ID	MB-42524		SampType: MBLK		TestCode: EPA Method 7470: Mercury					
Client ID:	PBW		Batch ID: 42524		RunNo: 56898					
Prep Date:	1/9/2019		Analysis Date: 1/10/2019		SeqNo: 1903938		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Mercury		ND 0.00020								
Sample ID	LCS-42524	SampType: LCS			TestCode: EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID: 42524			RunNo: 56898					
Prep Date:	1/9/2019	Analysis Date: 1/10/2019			SeqNo: 1903939		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.7	80	120			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range.  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A56777	RunNo:	56777					
Prep Date:		Analysis Date:	1/4/2019	SeqNo:	1900123	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A56777	RunNo:	56777					
Prep Date:		Analysis Date:	1/4/2019	SeqNo:	1900124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	51	1.0	50.00	0	102	80	120			
Magnesium	51	1.0	50.00	0	103	80	120			
Potassium	51	1.0	50.00	0	102	80	120			
Sodium	51	1.0	50.00	0	101	80	120			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Sample ID	MB-42405	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID:	42405	RunNo:	56870					
Prep Date:	1/2/2019	Analysis Date:	1/9/2019	SeqNo:	1903095	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-42405	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	42405	RunNo:	56870					
Prep Date:	1/2/2019	Analysis Date:	1/9/2019	SeqNo:	1903096	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.49	0.020	0.5000	0	97.5	80	120			
Barium	0.48	0.020	0.5000	0	96.3	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.1	80	120			
Chromium	0.49	0.0060	0.5000	0	98.0	80	120			
Lead	0.48	0.0050	0.5000	0	95.0	80	120			
Selenium	0.45	0.050	0.5000	0	90.8	80	120			
Silver	0.097	0.0050	0.1000	0	97.4	80	120			

Sample ID	1812E85-001EMS	SampType:	MS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well #2	Batch ID:	42405	RunNo:	56870					
Prep Date:	1/2/2019	Analysis Date:	1/9/2019	SeqNo:	1903099	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.56	0.020	0.5000	0	112	75	125			
Barium	0.88	0.020	0.5000	0.3953	97.1	75	125			
Cadmium	0.52	0.0020	0.5000	0	104	75	125			
Chromium	0.50	0.0060	0.5000	0	100	75	125			
Lead	0.47	0.0050	0.5000	0	93.3	75	125			
Selenium	0.48	0.050	0.5000	0	95.5	75	125			
Silver	0.11	0.0050	0.1000	0	107	75	125			

Sample ID	1812E85-001EMSD	SampType:	MSD	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well #2	Batch ID:	42405	RunNo:	56870					
Prep Date:	1/2/2019	Analysis Date:	1/9/2019	SeqNo:	1903100	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.53	0.020	0.5000	0	105	75	125	6.28	20	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.

Project: Injection Well WDW 2 12 28 2018

Sample ID	1812E85-001EMSD		SampType: MSD		TestCode: EPA 6010B: Total Recoverable Metals					
Client ID:	Injection Well #2		Batch ID: 42405		RunNo: 56870					
Prep Date:	1/2/2019		Analysis Date: 1/9/2019		SeqNo: 1903100		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.86	0.020	0.5000	0.3953	93.6	75	125	2.03	20	
Cadmium	0.51	0.0020	0.5000	0	102	75	125	1.03	20	
Chromium	0.49	0.0080	0.5000	0	98.5	75	125	1.69	20	
Lead	0.46	0.0050	0.5000	0	91.2	75	125	2.22	20	
Selenium	0.50	0.050	0.5000	0	101	75	125	5.56	20	
Silver	0.11	0.0050	0.1000	0	106	75	125	1.37	20	

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

Project: Injection Well WDW 2 12-28-2019

Sample ID	mb-1 alk	SampType	MBLK	TestCode	SM2320B: Alkalinity					
Client ID	PBW	Batch ID	R56730	RunNo	56730					
Prep Date:		Analysis Date	1/2/2019	SeqNo	1898751					
				Units	mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Total Alkalinity (as CaCO3)		ND	20.00							
Sample ID	Ics-1 alk	SampType: LCS		TestCode: SM2320B: Alkalinity						
Client ID:	LCSW	Batch ID: R56730		RunNo: 56730						
Prep Date:		Analysis Date: 1/2/2019		SeqNo: 1898752		Units: mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.96	20.00	80.00	0	96.2	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E85

17-Jan-19

Client: Western Refining Southwest, Inc.  
Project: Injection Well WDW 2 12 28 2018

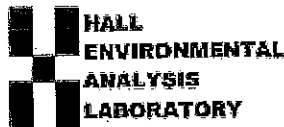
Sample ID	MB-42396	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	PBW	Batch ID:	42396	RunNo:	56705
Prep Date:	1/1/2019	Analysis Date:	1/2/2019	SeqNo:	1897633 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0			

Sample ID	LCS-42396	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	LCSW	Batch ID:	42396	RunNo:	56705
Prep Date:	1/1/2019	Analysis Date:	1/2/2019	SeqNo:	1897634 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1000	20.0	1000	0	100 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
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W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory  
4901 Hawkins N.E.  
Albuquerque, NM 87109  
TEL: 505-345-3971 FAX: 505-345-4187  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1812E66

RepINo: 1

Received By: Andy Freeman

12/29/2018 4:00:00 PM

Completed By: Erin Melendrez

12/31/2018 8:14:55 AM

Reviewed By: VVZ 12/31/18

LB: DAD 12/31/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $\geq 0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and CNG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐  
10. Were any sample containers received broken? Yes ☐ No ☒  
# of preserved bottles checked for pH: 3:2  
(2 or 12 unless noted)  
11. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? NO  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met? Yes ☒ No ☐ Checked by: DAD 12/31/18  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks.

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			





## Quarterly Analysis Requirement for WDW #2

- pH (method 8040)
- Eh
- Specific conductance
- Specific gravity
- Temperature
- Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3
- EPA RCRA Characteristic for Ignitability (ASTM methods), Corrosivity (SW-846) and Reactivity
- Injected fluids shall be analyzed quarterly for the constituents identified in the Quarterly Monitor List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b))

WDW #2 - QUARTERLY MONITORING LIST		
EPA HW No.	Contaminant	Regulatory Level (mg/L)
D004	Arsenic	5.0
D005	Barium	100.0
D018	Benzene	0.5
D006	Cadmium	1.0
D019	Carbon tetrachloride	0.5
D020	Chlordane	0.03
D021	Chlorobenzene	100.0
D022	Chloroform	6.0
D007	Chromium	5.0
D023	o-Cresol	200.0
D024	m-Cresol	200.0
D025	p-Cresol	200.0
D026	Cresol	200.0
D027	1,4-Dichlorobenzene	7.5
D028	1,2-Dichloroethane	0.5
D029	1,1-Dichloroethylene	0.7
D030	2,4-Dinitrotoluene	0.13
D032	Hexachlorobenzene	0.13
D033	Hexachlorobutadiene	0.5
D034	Hexachloroethane	3.0
D008	Lead	5.0
D009	Mercury	0.2
D035	Methyl ethyl ketone	200.0
D036	Nitrobenzene	2.0
D037	Pentachlorophenol	100.0
D038	Pyridine	5.0
D010	Selenium	1.0
D011	Silver	5.0
D039	Tetrachloroethylene	0.7
D040	Trichloroethylene	0.5
D041	2,4,5-Trichlorophenol	400.0
D042	2,4,6-Trichlorophenol	2.0
D043	Vinyl chloride	0.2

If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used.  
The regulatory level of total cresol is 200 µg/L.

If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level.  
If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).

## **APPENDIX D**

### **Well Testing Reports**

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-045-35747
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Wastewater Disposal Well		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Western Refining Southwest, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 50 County Road 4990 (PO Box 159) Bloomfield, NM 87413		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter <u>H</u> : <u>2028</u> feet from the <u>North</u> line and <u>East</u> feet from the <u>      </u> line Section <u>27</u> Township <u>29N</u> Range <u>11W</u> NMPM San Juan County		8. Well Number: WDW #2
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 267595
		10. Pool name or Wildcat Entrada

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER <input type="checkbox"/>		OTHER: Bradenhead Test Report <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Pursuant to Condition 3.D.1 of the Bloomfield Terminal Injection Well Discharge Permit (UICI-011), Western Refining Southwest, Inc. conducted a pressure test on the Bradenhead and Intermediate casings of WDW #2 on Monday, April 15<sup>th</sup>, 2019. A representative of NMOCD was on-site to witness the test. Attached is a copy of the Bradenhead Test Report.

Spud Date:  Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kelly Robinson TITLE Environmental Supervisor DATE 4-15-2019

Type or print name \_\_\_\_\_ E-mail address: \_\_\_\_\_ PHONE: \_\_\_\_\_  
For State Use Only

APPROVED BY: Corey J. Robinson TITLE Environmental Engineer DATE 4/18/19  
Conditions of Approval (if any):



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC NM 87410  
(505) 334-6176 FAX: (505) 334-6170  
<http://enrmd.state.nm.us/ocd/District/II/District.htm>

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 4-15-19 Operator Western Refining API #30-0 45-35747  
Property Name Waste Dis. Well Well No. 2 Location: Unit H Section 27 Township 29 Range 11  
Well Status (Shut-In or Producing) Initial PSI: Tubing 707 Intermediate 0 Casing 77 Bradenhead 11

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			INTERM	
	BH	Int	Csg	Int	Csg
TIME	0	0	77	0	77
5 min	0	0	77	0	77
10 min	0	0	77	0	77
15 min	0	0	77	0	77
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	✓
Nothing	✓
Gas	✓
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR \_\_\_\_\_ FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 0

INTERMEDIATE 0

REMARKS:

BH - 1/2 open to dead at 1/2 second. Puff  
when opened after 5 min shut-in. Nothing when  
opened. Nothing when opened after 5 min shut-in

By Kelly Jensen

Witness Monica Cuhling

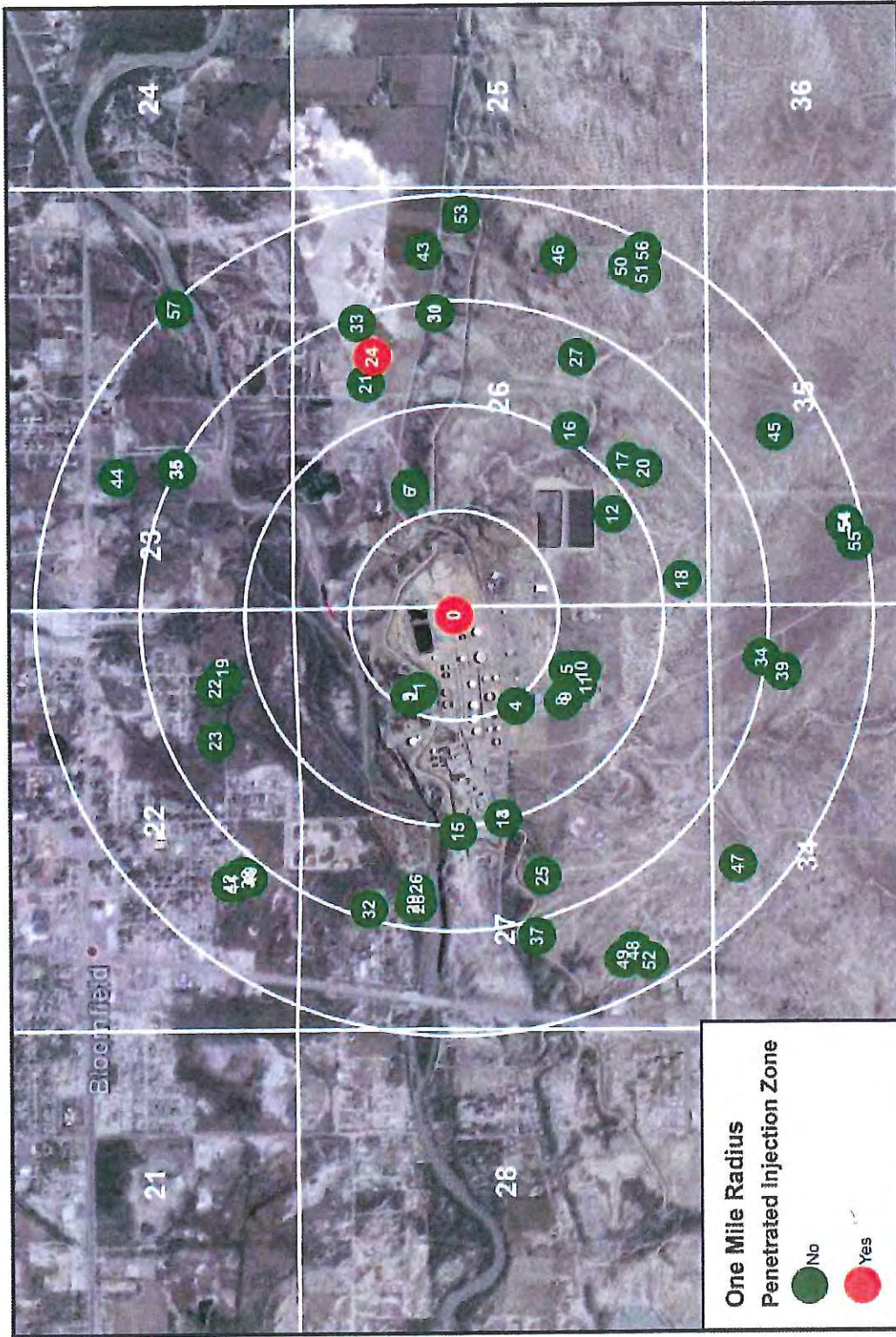
(Position)

E-mail address \_\_\_\_\_

## **APPENDIX E**

### *Area of Review*





# Disposal Well #2 Area Wells