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RECLAMATION

Technical Memorandum 86-68330-2020-08

2019 Annual Report

Paradox Valley Seismic Network

Paradox Valley Unit, Colorado

Colorado River Basin Salinity Control Project
Upper Colorado Region

Mission Statements

The Department of the Interior (DOI) conserves and manages the Nation's natural resources and cultural heritage for the benefit and enjoyment of the American people, provides scientific and other information about natural resources and natural hazards to address societal challenges and create opportunities for the American people, and honors the Nation's trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities to help them prosper.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Technical Memorandum 86-68330-2020-08

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Prepared by:

Bureau of Reclamation
Technical Service Center
Denver, Colorado

Technical Memorandum 86-68330-2020-08

Acronyms and Abbreviations

dB	decibel
EPA	Environmental Protection Agency
ft	feet
g	standard acceleration of gravity, equivalent to 9.80665 m/s^2
GMPE	ground motion prediction equation
gpm	gallons per minute
km	kilometers
l/min	liters per minute
MASIP	Maximum Allowable Surface Injection Pressure
M_D	duration magnitude
Mgal	millions of gallons
M_L	local magnitude
MPa	MegaPascal
MSL	Mean Sea Level
M_W	Moment magnitude
NGA	Next Generation Attenuation (Model)
psi	pounds per square inch
PGA	peak ground acceleration
PVB	Paradox Valley Brine
PVSN	Paradox Valley Seismic Network
PVU	Paradox Valley Unit
RAM	Random Access Memory
UIC	Underground Injection Code
USGS	United States Geological Survey

Technical Memorandum 86-68330-2020-08

Technical Approval


The results provided in this report are technically sound and consistent with current Reclamation practice.

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Peer Review Certification

This document has been reviewed and is believed to be in accordance with the scope of the service agreement and the standards of the profession.

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Appendices

Appendix

- A 2019 Site Visit Reports
- B PVSN 2019 Local Earthquake Catalog

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Paradox Valley Seismic Network

I. Introduction

The Paradox Valley Seismic Network (PVSN) monitors earthquakes induced by injection operations at the Bureau of Reclamation's Paradox Valley Unit (PVU) deep disposal well, as well as local naturally occurring earthquakes. This report summarizes PVSN operations and the data recorded during calendar year 2019. We provide project background information in section II, including the history of PVU injection operations and details of the seismic network. In section III, we present PVSN network operations during 2019, including maintenance of the seismic stations and data acquisition systems and annual network performance. The earthquake data recorded during 2019 are discussed in section II and compared to historical seismicity trends.

II. Project Background

A. Paradox Valley Unit

Reclamation's PVU, a component of the Colorado River Basin Salinity Control Project, intercepts salt brine that would otherwise flow into the Dolores River, a tributary of the Colorado River. PVU is in western Montrose County, approximately 90 km southwest of Grand Junction, Colorado and 16 km east of the Colorado-Utah border (Figure II-1). The Dolores River flows from southwest to northeast across Paradox Valley (Figure II-2), which was formed by the collapse of a salt-cored anticline (Figure II-3). Due to the presence of the salt diapir underlying Paradox Valley, groundwater within the valley is nearly eight times more saline than ocean water. To prevent this highly saline groundwater from entering the Dolores River and degrading water quality downstream, the brine is extracted from nine shallow wells within the valley near the Dolores River. The diverted brine is injected at high pressure into a deep disposal well, designated as PVU Salinity Control Well No. 1. The disposal well is located approximately 1.5 km southwest of Paradox Valley, near the town of Bedrock (Figure II-2).

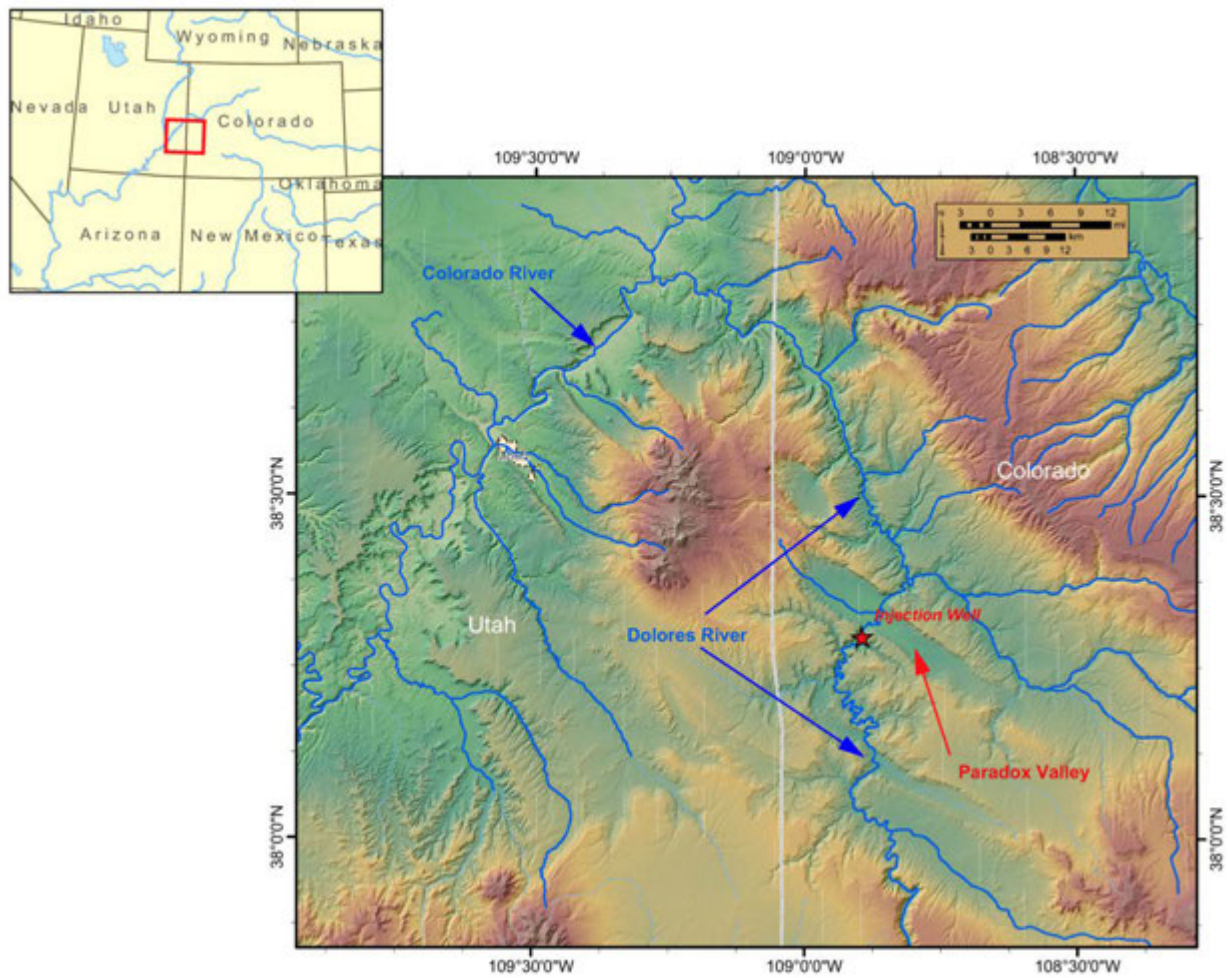


Figure II-1: Location of the deep injection well at Reclamation's Paradox Valley Unit in western Colorado (red star).

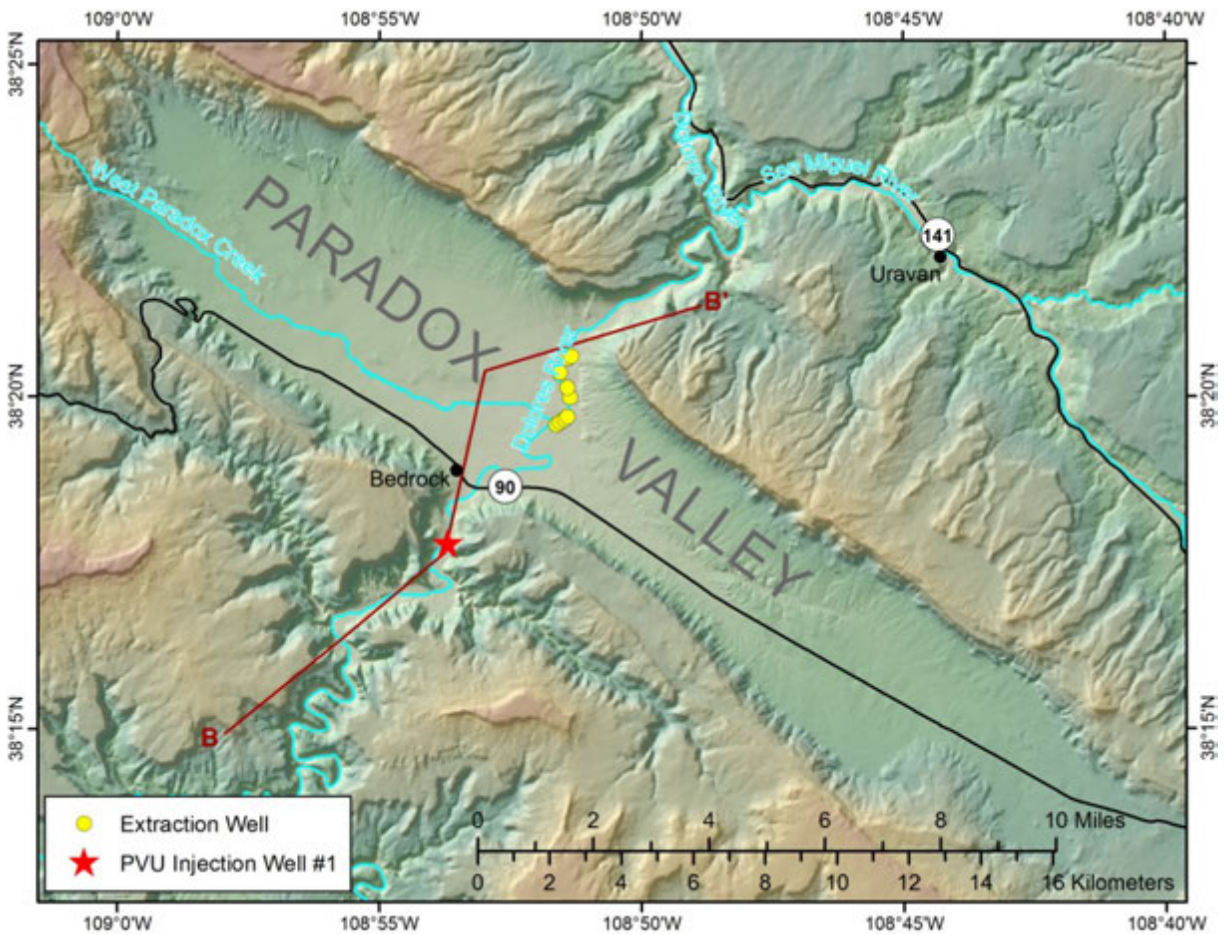


Figure II-2: Location of the Paradox Valley Unit extraction wells (yellow circles) and injection well (red star). Cross section B-B' is shown in Figure II-3.

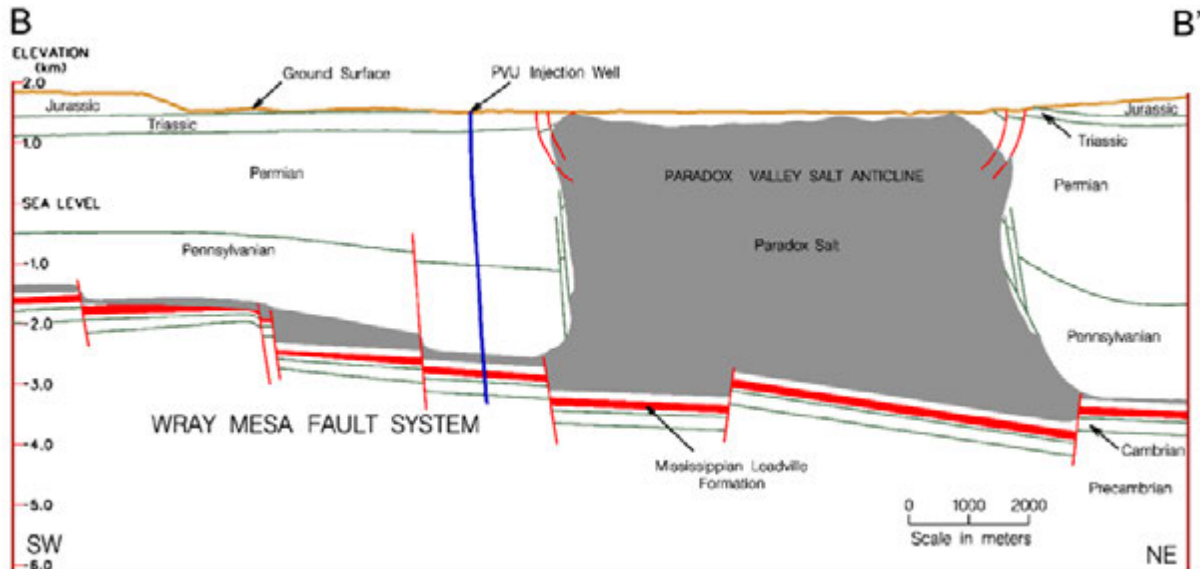


Figure II-3: Vertical cross section roughly perpendicular to Paradox Valley, looking to the northwest. The location of the cross section is shown in Figure II-2. Based on figure from (Bremkamp and Harr, 1988).

PVU Salinity Control Well No. 1 was completed in 1987 to a total depth of 4.88 km (approximately 16,000 ft). The well was built to Environmental Protection Agency (EPA) Underground Injection Code (UIC) Class I standards (“Isolate hazardous, industrial and municipal wastes through deep injection”), but was permitted in 1995 by EPA as a Class V disposal well (“Manage the shallow injection of non-hazardous fluids”). The well penetrates Triassic- through Cambrian-age sedimentary rock layers and granitic Precambrian basement (Figure II-3). Based on interpretation of regional core and log data, the Mississippian Leadville carbonate was selected as the primary injection zone with the upper Precambrian as a secondary zone (Bremkamp and Harr, 1988). The overlying Paradox salt formation acts as a confining layer. The well casing of PVU Well No. 1 (constructed of Hastelloy C- 276, a nickel-molybdenum-chromium alloy) was perforated at a spacing of ~20 perforations per meter in three major intervals between 4.3 km and 4.8 km depth. Plan and vertical views of the wellbore, with near-wellbore stratigraphy and the perforation intervals, are shown in Figure II-4.

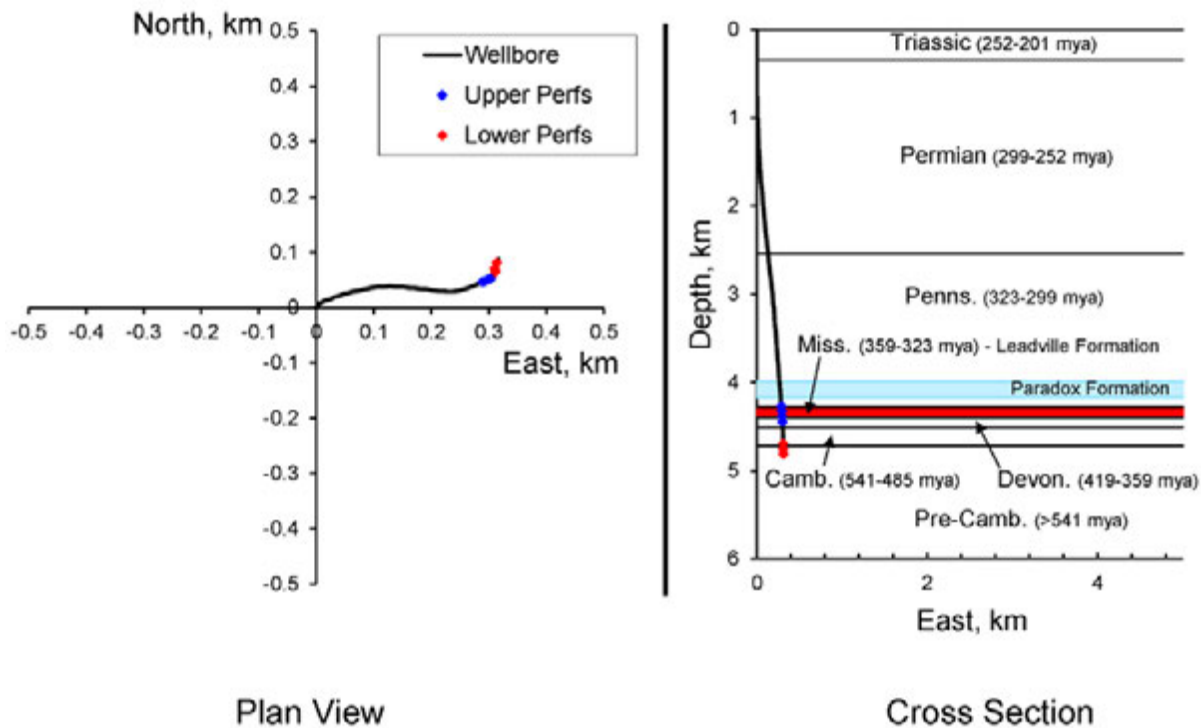


Figure II-4: PVU injection well in plan view (left) and north-viewing vertical cross section (right). Figure includes the near-wellbore stratigraphy and locations of the upper and lower casing perforations. The primary target injection formation, the Leadville, is shown in red, and the Paradox formation confining layer is shown in blue. The ages of the geologic time periods are taken from the Geological Society of America Geologic Time Scale version 4.0 (Walker et al., 2013). The ages shown represent the entire span of any given geologic time period and do not necessarily represent the precise ages of the rocks present at the PVU injection well.

B. PVU Injection Operations

Between 1991 and 1995, Reclamation conducted a series of seven injection tests, an acid stimulation test, and a reservoir integrity test at PVU. The purpose of these tests was to qualify for a Class V permit for deep disposal from the EPA. Near-continuous, long-term disposal of brine began in July 1996, after EPA granted the permit. During long-term injection, Reclamation instituted six major changes in operations. Five of these changes were implemented to mitigate the potential for unacceptable seismicity, and one change was made to improve injection economics. The seven time periods defined by these operational changes are considered separate injection phases and are described below. Plots of the daily average injection flow rates, daily average surface injection pressures, daily

average downhole pressures (at a depth of 4.3 km), and cumulative injected fluid volumes during PVU injection operations are shown in Figure II-5. The downhole pressures shown were computed from measured surface pressures using the density of the brine column in the wellbore.

1. Phase I - July 22, 1996 to July 7, 1999

During this initial phase of near-continuous injection, brine was injected at a nominal flow rate of 345 gpm (~1306 l/min), resulting in an average surface pressure of about 4,950 psi (~34.1 MPa). This corresponded to approximately 11,800 psi (~81.4 MPa) downhole pressure at 4.3 km depth. To maintain this flow rate, three constant-rate pumps were used, each operating at 115 gpm. The surface pressure occasionally approached the wellhead pressure safety limit of 5,000 psi. This safety limit was based on the operational specifications of the injection and wellhead equipment. It also corresponded to the maximum allowable surface injection pressure (MASIP) defined in the injection permit issued by EPA, which is intended to prevent breach of the geologic confining layer (the Paradox salt). When the surface pressure approached the MASIP, the injection rate was reduced by shutting down one or two of the injection pumps, allowing the pressure to drop a few hundred psi before returning to a three-pump operation. These partial shutdowns occurred frequently and had typical durations of a few minutes to a few days. This operational protocol resulted in relatively constant surface and downhole pressures (Figure II-5). Periodic maintenance shutdowns of all pumps also occurred and lasted for one to two weeks. In mid-1997, a 71-day total shutdown was needed to replace the operations and maintenance contractors. The *Phase I* protocols resulted in an overall average injection rate of roughly 300 gpm (1136 l/min), and the total volume of fluid injected was 427 Mgal (1.6×10^9 liters).

The injectate during *Phase I* was a mixture of 70% Paradox Valley Brine (PVB) and 30% fresh water from the Dolores River. A geochemical study had predicted that if 100% PVB were injected, it would interact with connate fluids and the dolomitized Leadville Limestone at the initial formation temperatures and pressures, resulting in the precipitation of calcium sulfate. This precipitation in turn would lead to reduced permeability (Kharaka et al., 1997).

2. Phase II - July 8, 1999 to May 27, 2000

Following a local magnitude M_L 3.6 earthquake in June 1999 and an M_L 3.5 earthquake in July 1999, PVU altered the injection schedule to include a 20-day total shutdown (shut-in) every six months. Prior to these events, it was noted that the rate of seismicity in the near-wellbore region (i.e., within about a 2-km radius around the wellbore) decreased during and following unscheduled maintenance

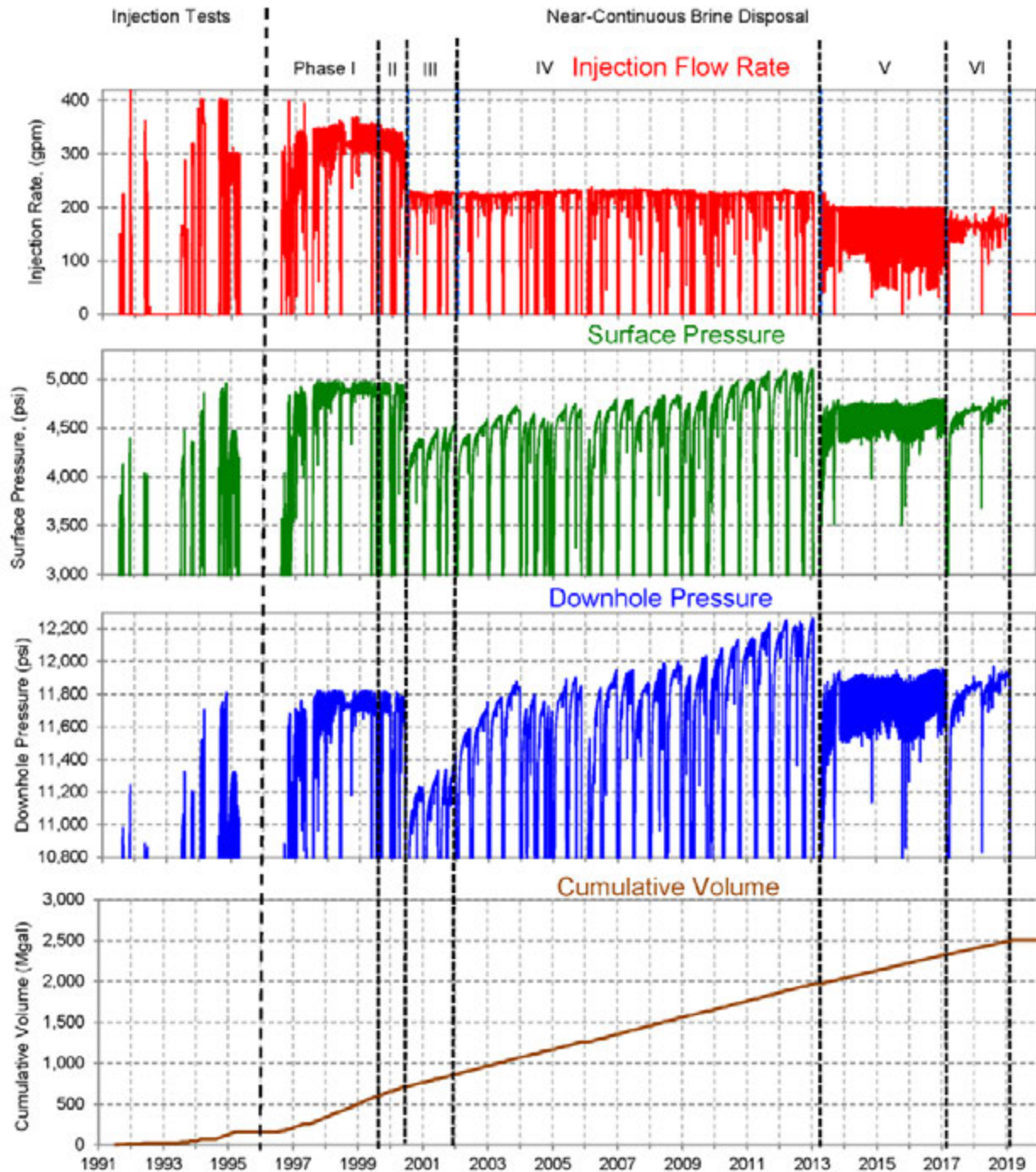


Figure II-5: Daily average injection flow rate, daily average surface injection pressure, daily average downhole pressure at 4.3 km depth, and cumulative volume of brine injected during PVU injection operations. The downhole pressures are computed from the measured surface pressures using the density of the brine column in the well.

shutdowns. Similar decreases in seismicity also were observed during the shutdowns following the injection tests of 1991 through 1995. It was therefore hypothesized that the biannual shutdowns might reduce the potential for inducing large-magnitude earthquakes by allowing extra time for the injectate to diffuse from the pressurized fractures and faults into the formation rock matrix. When injecting during this phase, the average flow rate was the same as during Phase I. One hundred and eighteen Mgal (4.5×10^8 liters) of fluid were injected during Phase II.

3. Phase III - June 23, 2000 to January 6, 2002

Immediately following an M_L 4.3 earthquake on May 27, 2000, injection ceased for 28 days. During this shutdown period, Reclamation evaluated the existing injection protocol and its effect on induced seismicity. The decision was made to reduce the injection flow rate in the expectation that this change would likely reduce the potential for inducing large-magnitude earthquakes. On June 23, 2000, PVU injection resumed using two pumps rather than alternating between two and three pumps. The biannual 20-day shutdowns were maintained. The nominal flow rate during *Phase III*, while injecting using two pumps, was 230 gpm (~871 l/min). Accounting for the two 20-day shut-ins per year, the average injection flow rate was approximately 205 gpm (776 l/min), a decrease of about 32% compared to *Phase I*. During this phase, 156 Mgal (5.9×10^8 liters) of fluid were injected.

4. Phase IV - January 7, 2002 to January 24, 2013

During October 2001, the need to dilute PVB with fresh water prior to injection was re-evaluated. Lab testing of drill cores conducted in 1993 detected no evidence of precipitation or plugging for either a 70 % brine / 30 % freshwater mixture or for a 100 % brine mixture, at temperatures of 270 °F or 300 °F (Envirocorp Services and Technology Inc., 1993). In addition, temperature logging had been performed multiple times between 1992 and June 2001 and recorded substantial near-wellbore cooling at the depth of the Leadville Formation (~70° to ~130° F decrease) (Subsurface Technology, 2001). The temperature measurements recorded in the upper Leadville in 2001 indicted “a super-cooled buffer zone, some distance from the well, which will prevent the creation of conditions favorable to calcium sulfate precipitation” (Subsurface Technology, 2001, pg. 18). Hence, if precipitation were to occur, it would not be near the wellbore perforations where clogging might be a concern (Nicholas, 2001). In addition, the high PVU injection pressures would likely act to keep fractures open within the target injection formations, even if some precipitation were to occur

(McKinley, 2001). Further analyses indicated that, if precipitation occurs, its maximum expected rate is ~8 tons of calcium sulfate per day (Mahrer et al., 2003). To put this amount into perspective, injecting at ~230 gpm and assuming a brine density of 9.86 lbs/gal (17% more dense than fresh water) results in a daily injection mass of ~1633 tons. The maximum expected precipitate therefore is only ~0.5% of the daily injection mass.

After considering this new information, the decision was made to begin injecting 100% PVB, to partially offset the reduction in salt disposal rates resulting from the decreased injection rate implemented in *Phase III*. Injection of 100% PVB began on January 7, 2002, following the December-January 20-day shutdown, and has been maintained since. The injection rate implemented in *Phase III* (230 gpm) and biannual 20-day shutdowns were continued. The volume of fluid injected during *Phase IV* was 1,110 Mgal (4.2×10^9 liters).

Because of the decreased flow rate in *Phase III* and *Phase IV* compared to the earlier phases, the surface pressure remained below the MASIP of 5,000 psi for over a decade (mid-2000 to 2011). Hence, there was no need to frequently alter flow rates, as had been done during *Phases I* and *II*. Nevertheless, the continued injection during *Phases III* and *IV* resulted in a trend of increasing maximum surface and downhole pressures (Figure II-5). In addition, because of the increased density of the 100% PVB injected during *Phase IV* over the 70% PVB / 30% fresh water mix injected previously, the computed downhole pressures increased by ~300 psi immediately following the change to 100% brine in January, 2002.

In response to the increasing surface injection pressures, Reclamation submitted a request to EPA in 2004 to increase the MASIP. EPA approved the request, pending infrastructure upgrades to increase the injection equipment pressure safety limit. In 2009, the PVU injection wellhead equipment was upgraded to a pressure safety limit of 10,000 psi. An increase in the MASIP to 5350 psi was formally incorporated into the injection permit reauthorization issued by EPA in August 2011.

5. Phase V - April 17, 2013 to March 12, 2017

An induced earthquake with M_L 4.4 (corresponding to moment magnitude M_W 4.0) occurred ~8 km northwest of the PVU injection well on January 24, 2013 (Block et al., 2014). In response to this earthquake, injection was halted while a reassessment of the seismic hazard associated with PVU injection was performed. Analyses of the seismic and injection data indicated that the potential for inducing large felt events would be reduced by decreasing the long-term average injection pressures (Block and Wood, 2009; Wood et al., 2016). Pressure-flow modeling

indicated that reducing the flow rate would lead to a corresponding reduction in wellhead pressures. Forward modeling was used to evaluate the effect of different flow rates on wellhead pressures (Wood et al., 2016). In addition, the pressure-flow modeling indicated that changing the injection well shut-in schedule to one with shorter, more frequent shut-ins would result in a reduction in the average wellhead pressure, compared to the biannual 20-day shut-ins previously used.

As a result of these analyses, the decision was made in April 2013 to reduce the injection flow rate and increase the frequency of injection well shut-ins. Due to the lag time in obtaining pump plungers that would allow injection at a lower flow rate, injection was initially resumed on April 17, 2013, maintaining the flow rate at 230 gpm and implementing a 36-hour shut-in every week. On June 6, 2013, following the installation of the new plungers, the flow rate was reduced to 200 gpm and the shut-in length was reduced to 18 hours, maintaining the frequency of one shut-in per week. A shut-in duration of 18 hours was chosen so that the total annual shut-in time would be approximately equivalent to that scheduled previously with the biannual 20-day shut-ins. Hence, the nominal flow rate during *Phase V* (200 gpm) was decreased by 13 % from that during *Phase IV* (230 gpm), and the total duration of planned shut-ins remained the same.

Because of the frequency of the new shut-in schedule, the durations of any unplanned shut-ins (such as those periodically required for equipment maintenance) were tracked, and those hours were subtracted from the weekly scheduled 18-hour shut-ins. The durations of unplanned shut-ins had not been tracked and subtracted from the biannual 20-day shut-ins during earlier injection phases, and hence the total shut-in time during previous years had sometimes varied substantially, depending on the number and duration of unplanned shut-ins required. Hence, while the nominal flow rate during *Phase V* was decreased by 13% from that during *Phase IV*, the effective decrease in flow rate was less than this value due to the difference in total shut-in time. The average flow rate during *Phase V* was 177 gpm, which is ~9.7 % less than the average flow rate of 196 gpm during the preceding three years (2010-2012). Three hundred and sixty-four Mgal (1.4×10^9 liters) of fluid were injected during this phase.

6. Phase VI - April 8, 2017 to March 4, 2019

Beginning on March 12, 2017, the injection well was shut in for 27 days. Injection was resumed on April 8, at a ~5 % reduced effective flow rate. These changes were made partially in response to the observation that the rates and magnitudes of PVU-induced earthquakes had been increasing for ~1.5 years. The occurrence of an M_D 2.9 earthquake nearly 13 km from the injection well (on 3/12/17) further influenced the decision to reduce the effective flow rates.

The reduced effective flow rate was initially achieved by changing the size of the plungers from 2.000" to 1.875", which reduced the nominal flow rate from 200 gal/min to 174 gal/min. At the same time, the duration of the weekly shut-ins was reduced from 18 hours to 6 hours. Two pumps were run continuously, except for the weekly plant shutdowns. Considering the weekly shut-ins, the effective average flow rate was 168 gal/min.

In September 2017, premature wear of the new 1.875" plungers forced reinstallation of larger plungers in two of the three pumps (one 2.125" plunger and one 2.000" plunger). As a result, injection operations were changed to accommodate the larger plungers (and corresponding rate increase) by eliminating the six-hour weekly plant shutdown and starting daily pump shutdowns on the pumps with larger plungers. Weekly shutdown of the single pump with the 1.875" plunger continued. Injection was then continuous, with either one or two pumps running at any given time. The target daily injection volume was 242,000 gallons, corresponding to a target average injection rate of 168 gpm. Hence, the effective average flow rate remained the same as with the smaller plungers. The total volume of fluid injected during *Phase VI* was 167 Mgal (6.3×10^8 liters).

An induced earthquake with moment magnitude M_w 4.5 occurred ~1.6 km southwest of the PVU injection well on March 4, 2019 (Block et al., 2020). This earthquake was the largest PVU-induced earthquake to date and was substantially larger than the M_w 4.0 earthquake of January 2013. More than 2,000 aftershocks occurred in the first five months following the main shock, resulting in the highest near-well seismicity rates in 20 years. Analyses indicate that aftershocks will continue to occur for several years, at gradually decreasing rates (Block et al., 2020). The PVU injection well had been shut down for a few hours at the time of the M_w 4.5 earthquake, to accommodate equipment maintenance activities. The well remained shut down for more than a year, while detailed analyses of the M_w 4.5 earthquake and its numerous aftershocks were conducted. This extended shutdown also allowed formation pressures and aftershock rates to decay substantially.

7. Phase VII – April 21, 2020 to Present

Injection resumed on April 21, 2020 for a six-month test period. The test is being conducted to evaluate how the well will perform after being shut in for more than a year. Specifically, the pressure response of the well will be evaluated to determine whether any potential near-wellbore precipitation in the injection formations during the extended shutdown has altered the injection pressure response. In addition, seismicity within a few km of the well will be closely monitored for any changes in induced seismicity response to injection. The

continuing aftershocks of the M_w 4.5 earthquake will be analyzed to determine whether resumption of injection affects the aftershock decay rate or magnitude distribution. Injection during this test is at a constant rate of 115 gpm, a 32% reduction compared to the rate in *Phase VI*. No shut-ins are planned during this six-month test, but injection could be stopped prematurely if adverse pressure or seismic response is observed.

C. Seismic Monitoring

1. Paradox Valley Seismic Network

During the planning for PVU it was recognized that earthquakes could be induced by the high-pressure, deep-well injection of brine. This was based on comparison to other deep-well injection projects in Colorado, including the Rocky Mountain Arsenal, near Denver, and oil and gas extraction projects near Rangle (Gibbs et al., 1973; Hsieh and Bredehoeft, 1981; Nicholson and Wesson, 1990; Raleigh et al., 1976).

In 1983, eight years before the first injection at PVU, Reclamation commissioned a seismic monitoring network to characterize the pre-injection, naturally occurring seismicity in the Paradox Valley region, and to monitor earthquakes that might be induced once injection operations began. The Paradox Valley Seismic Network (PVSN) was the product of these efforts. Field equipment for an initial 10-station network was acquired and installed in 1983 by the U.S. Geological Survey (USGS), under a Memorandum of Agreement with Reclamation. Nine of these original seismic stations were vertical-component, and the remaining station (PV08) was three-component. All stations used short-period seismometers (natural frequency of 1 Hz), and analog telemetry. Continuous data recording and archiving began in 1985. For the first several years of monitoring, seismic data from this network were acquired and processed by the USGS at their facilities in Golden, Colorado. In 1990, responsibility for data acquisition and analysis was assumed by Reclamation. The USGS continued to assist Reclamation with the maintenance of the field instrumentation and radio telemetry.

PVSN has been upgraded and expanded several times, both to modernize its instrumentation and to improve coverage of seismically active areas. In addition, some stations have been de-commissioned, either due to repeated vandalism or changing telemetry requirements. The locations of the original and current PVSN seismograph stations are shown in Figure II-6. Details about the stations are provided in Table II-1, including dates of operation, station type, and number of components. Table II-2 lists the station location names.

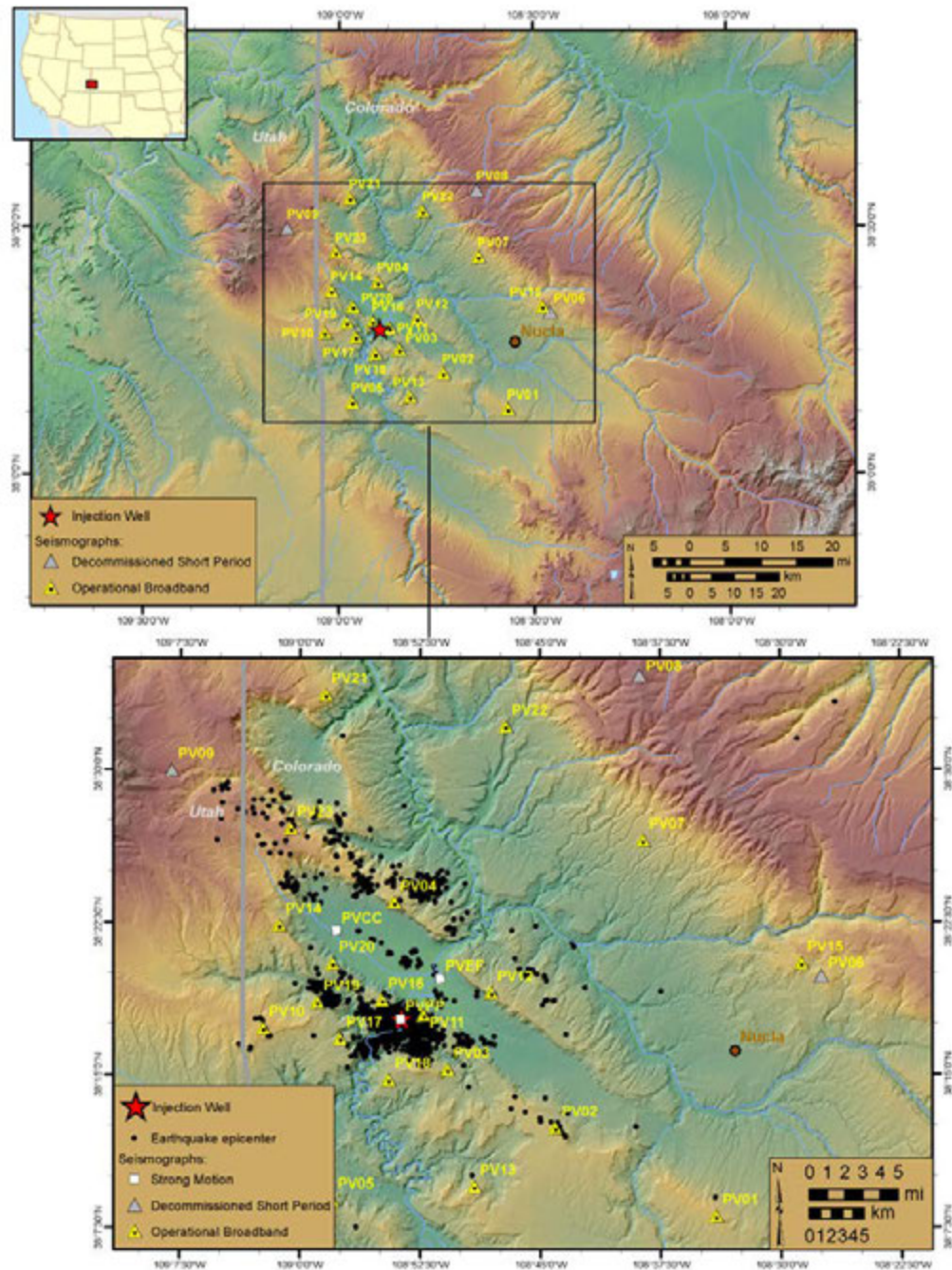


Figure II-6: Locations of the PVSN seismic stations, PVU injection well, and epicenters of earthquakes ≤ 10 km deep. PVCC, PVEF, & PVPP are the strong motion stations. Station PV06 was replaced by PV15. Stations PV08 and PV09 were decommissioned when the network was upgraded to broadband digital instrumentation.

Table II-1: PVSN Station Locations and Characteristics

Station Name	Latitude deg., N	Longitude deg., W	Elev. m	Dates of Operation	Station Type	Sensor Direction
PV01	38.13	108.57	2191	5/83-7/16/15 5/10-present	short-period broadband	vertical triaxial
PV02	38.21	108.74	2177	5/83-8/27/11 10/08-present	short-period broadband	vertical triaxial
PV03	38.25	108.85	1972	5/83-7/16/15 10/08-present	short-period broadband	vertical triaxial
PV04	38.39	108.90	2176	5/83-6/06 5/07-present	short-period broadband	vertical triaxial
PV05	38.15	108.97	2142	5/83-7/16/15 5/10-present	short-period broadband	vertical triaxial
PV06	38.33	108.46	2243	5/83-8/94	short-period	vertical
PV07	38.44	108.64	2040	6/83-8/27/11 5/10-present	short-period broadband	vertical triaxial
PV08	38.58	108.65	2950	6/83-9/89 9/89-10/03 10/07-7/12/11	short-period short-period short-period	triaxial vertical triaxial
PV09	38.50	109.13	2662	6/83-7/16/15	short-period	vertical
PV10	38.29	109.04	2266	6/83-7/16/15 10/08-present	short-period broadband	vertical triaxial
PV11	38.30	108.87	1882	12/89-10/13 10/08-present	short-period broadband	triaxial triaxial
PV12	38.32	108.80	2092	12/89-7/05 11/05-present	short-period broadband	vertical triaxial
PV13	38.16	108.82	2158	12/89-7/16/15 5/10-present	short-period broadband	vertical triaxial
PV14	38.37	109.02	2234	12/89-4/02 6/07-present	short-period broadband	vertical triaxial
PV15	38.34	108.48	2234	6/95-8/27/11 7/11-present	short-period broadband	vertical triaxial
PV16	38.31	108.92	2025	7/99-7/16/15 5/10-present	short-period broadband	vertical triaxial
PV17	38.28	108.96	1991	11/05-present	broad-and	triaxial
PV18	38.25	108.91	1999	7/11-present	broadband	triaxial
PV19	38.31	108.98	2041	7/11-present	broadband	triaxial
PV20	38.34	108.97	1852	7/11-present	broadband	triaxial
PV21	38.56	108.97	2235	7/11-present	broadband	triaxial

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Station Name	Latitude deg., N	Longitude deg., W	Elev. m	Dates of Operation	Station Type	Sensor Direction
PV22	38.54	108.79	1925	7/11-present	broadband	triaxial
PV23	38.45	109.01	2456	11/11-present	broadband	triaxial
PVPP	38.30	108.90	1524	12/97-present	strong motion	triaxial
PVEF	38.33	108.85	1513	10/03-present	strong motion	triaxial
PVCC	38.37	108.96	1617	6/05-present	strong motion	triaxial
Notes: Elevations are relative to mean sea level (MSL). The surface elevation of the injection well is 1540 m above MSL. Stations with vertical sensor direction are single-component; triaxial are 3-component (vertical, north, and east).						

Table II-2: Location Names of PVSN High-Gain Sites

Station	Station Location Name
PV01	The Burn
PV02	Monogram Mesa
PV03	Wild Steer
PV04	Carpenter Flats
PV05	E. Island Mesa
PV07	Long Mesa
PV08	Uncompahgre Butte
PV09	North LaSalle
PV10	Wray Mesa
PV11	Davis Mesa
PV12	Saucer Basin
PV13	Radium Mtn
PV14	Lion Creek
PV15	Pinto Mesa
PV16	Nyswonger Mesa
PV17	Wray Mesa East
PV18	Skein Mesa
PV19	Morning Glory Mine
PV20	W. Nyswonger Mesa
PV21	Cone Mountain
PV22	Blue Mesa
PV23	Carpenter Ridge

Upgrade and expansion of the original 10-station continuously telemetered, high-gain seismic network began in 1989. First, a three-component station (PV11) was installed on the mesa just south of the injection well in order to provide better focal depth control and to allow for more sensitive event detection. Three vertical-component stations (PV12-PV14) were also added in 1989 to increase the density of stations surrounding the well. Station PV08 was downgraded in 1989 from a three-component station to a vertical-component only station, because it was determined that the equipment could be better used at the new stations closer to the injection well. Station PV15 was installed in 1995 to replace PV06, which had been vandalized in 1991, 1992, and 1994, when it was finally abandoned. A second three-component station (PV16) was installed on the mesa north of the injection well in 1999 to further improve near-well coverage.

In October 2000, a major upgrade to the data telemetry and acquisition was implemented. Up until this time, analog data from all stations had been radio-telemetered through PV08, which then relayed the data stream to Reclamation offices in Montrose, where it was transmitted via microwave and analog telephone links to Denver. In Denver, the analog data from all stations were digitized (using 12-bit digitizers) and processed. In October 2000, a wide-area network (WAN) link was established at the Hopkins Field Airport, near Nucla, Colorado, and new 16-bit digitizers were installed there. All analog radio links from the stations were reconfigured to terminate at Hopkins Field, and the use of analog telephone circuits to relay data was discontinued. Station PV08 was no longer used as a radio-telemetry relay. Station PV08 was temporarily removed in October 2003 to accommodate nearby construction activities and reinstalled in October 2007, at which time it was returned to a three-component configuration.

Starting in 2005, upgrades to the high-gain seismic network focused on replacing the analog short-period seismic instrumentation with digital broadband instrumentation. The short-period instrumentation had become obsolete both in terms of the data quality needed for ongoing analyses, and in terms of maintaining equipment that was no longer manufactured. Two key characteristics of the instrumentation constrain data quality: bandwidth and dynamic range. The short-period instrumentation had an effective seismic signal bandwidth of 1-20 Hz. The low end of this range was determined by the natural frequency (1 Hz) of the seismometers used (Geotech model S-13), and the high end by the analog low-pass filter setting (nominally 25 Hz). The bandwidth of the analog stations was insufficient for many analysis purposes, such as accurately identifying complex seismic phases, accurately computing seismic moments of induced earthquakes (which require determination of long-period spectral levels), waveform modeling, or extracting time-domain Green's functions from ambient noise. Furthermore, the effective dynamic range of the analog stations constrained the ratio of the largest to smallest seismic signal that could be recorded on-scale to only a factor

of about 1000, which corresponds to approximately two earthquake magnitude units. This resulted in seismic signals of earthquakes greater than about M 1.5 being clipped, which limited the use of this important data for magnitude and moment calculations, waveform cross-correlation, and identification of the S-wave arrival. Although 16-bit digitizers (with a dynamic range of 90 dB) were used after 2000, the effective dynamic range of the analog stations remained much less, approximately 10 or 11 bits (60 dB), because of the limited sensitivity of the voltage-controlled oscillators (VCOs) used at the stations to modulate the seismic signals onto the carrier tones used for analog radio telemetry. Modern broadband instrumentation provides much better characteristics, with typical bandwidths of 0.03 to 50 Hz, 24-bit digitizers providing a dynamic range of 135 dB or more, and seismometers typically packaged as a single unit with internal three-component sensors.

In November 2005, the first three-component broadband seismometer (Guralp model CMG-40TD) was installed at a new station southwest of the injection well (PV17). This instrument uses a 24-bit digitizer integrated within the seismometer case to minimize potential cable noise (digitizers and seismometers separated by a long analog cable can be sensitive to cross-talk at the microvolt level, which is difficult to protect against). Station PV12 was similarly upgraded at about the same time, and stations PV04 and PV14 were converted in May and July of 2007. These first-generation digital stations used digital radios that effectively behaved as a remote RS232 serial data link and which required the use of “combiner-repeater” modules (Guralp model CRM-6) to combine the serial signals from multiple stations. The first-generation stations exhibited a number of data quality problems, the most severe of which was crosstalk between the GPS antenna cabling (which provided timing for the internal digitizer) and the system providing power to the seismometer (O’Connell, 2008). The crosstalk inherent in the first-generation design resulted in significant spectral spikes in the data at frequencies of 1 Hz and greater, as illustrated in Figure II-7.

A new station design was developed in 2007 and 2008 based on experience from the first generation stations and from similarly instrumented seismic networks deployed at B.F. Sisk and Hungry Horse Dams (O’Connell, 2008). The new stations incorporated features to minimize the GPS antenna cable crosstalk problem, as well as to make the system more modular and robust. It included entirely new seismometer vaults, station enclosures, antennas, solar panels, and Ethernet packet radios. Deployment of the new instrumentation began in 2008, with upgrades of PV02, PV03, PV10, and PV11. In May 2010, stations PV01, PV05, PV07, PV13, and PV16 were upgraded. In July 2011, station PV15 was upgraded. In addition, six broadband digital seismic stations (PV18 to PV23) were installed at new sites in 2011. Two of these stations, PV22 and PV23, are

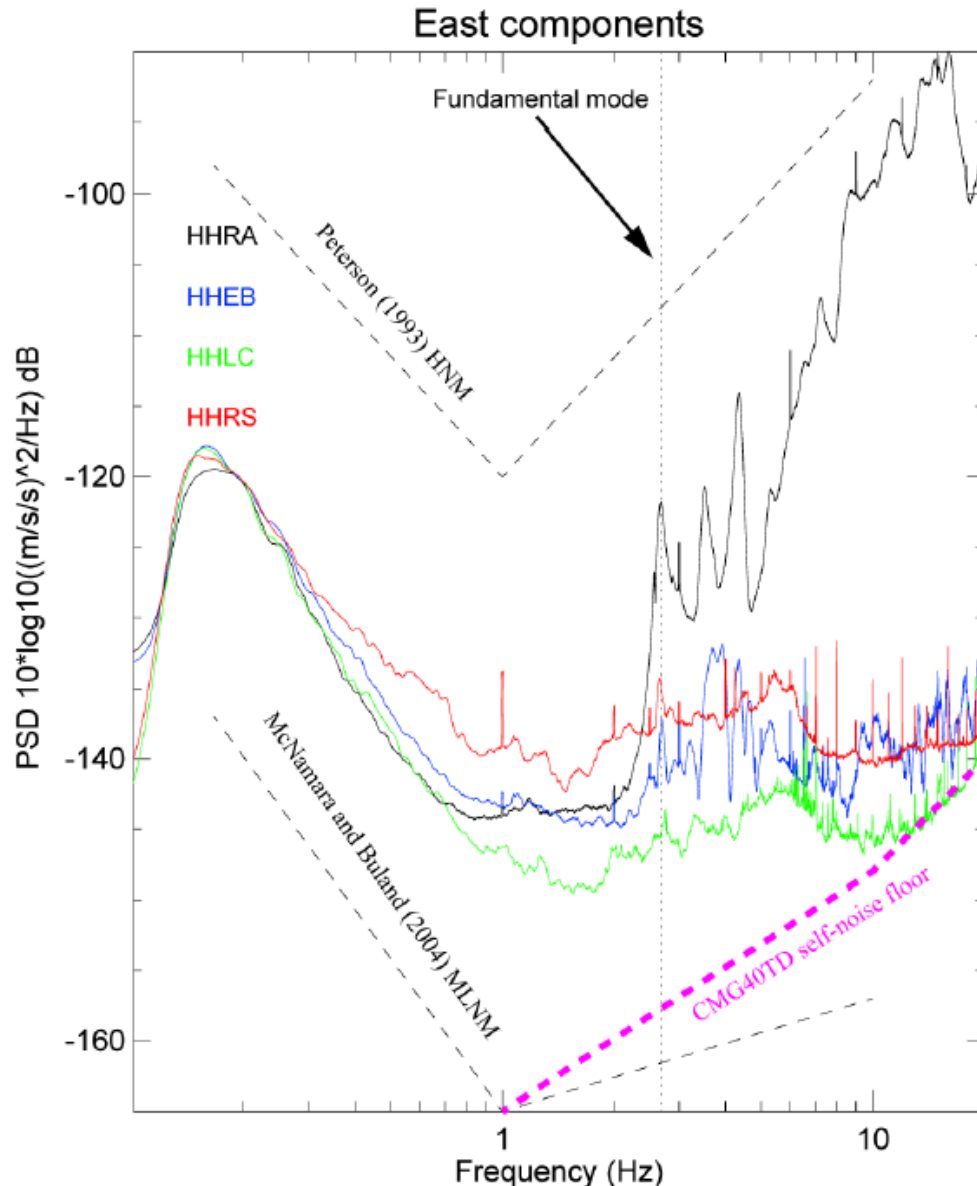


Figure II-7: Stacked multi-taper acceleration power spectra from the east-west components of Guralp model CMG40TD seismometers installed at four first-generation stations (HHRA, HHEB, HHLC, and HHRS) near Hungry Horse Dam, Montana. Windows were 400 seconds in length and represented ambient conditions (station HHRA was located close to power generation plant at the dam, and therefore exhibited much higher ambient noise levels at frequencies above 2 Hz). The obvious spikes in the spectra at frequencies of 1 Hz and higher were caused by GPS antenna crosstalk problems inherent in the first-generation stations. A new station design was implemented at PVSN to substantially reduce these crosstalk problems. Figure from (O'Connell, 2008).

replacements for old analog stations PV08 and PV09, which were decommissioned because they were noisy sites founded on thick alluvial deposits (all other sites are on rock). The other four new seismic stations (PV18, PV19, PV20, and PV21) were installed to improve coverage in seismically active areas of interest (including seismicity occurring within 9 km of the injection well and at the northern end of Paradox Valley).

The digital broadband upgrade of PVSN seismic stations was completed in late 2011. Consequently, Reclamation discontinued maintenance of the obsolete analog seismic stations. Four of those stations permanently went offline during 2011 (PV02, PV07, PV08, and PV15), and an additional analog station (PV11) ceased functioning in late 2013. The remaining analog stations were decommissioned in July 2014, when the data acquisition center at Hopkins Field was relocated into a new building.

During 2018, we began replacement of the Guralp model CMG-40TD broadband seismometers with Guralp model 3ESPCDE seismometers, as some of the original seismometers began to fail and were no longer supported. For example, compatible GPS antennas could no longer be obtained for the oldest CMG-40TDs in the network, making continued maintenance of the stations with these old instruments impractical. The 3ESPCDE seismometers have several advantages over the CMG-40TD seismometers, including: substantially less self-noise, considerably less power usage than the oldest CMG-40TDs, and Ethernet capability for future communications upgrades. In April 2018, the CMG-40TD seismometers at stations PV02, PV10, PV18, PV20, and PV23 were replaced with new 3ESPCDE seismometers. The seismometers at stations PV12 and PV19 were upgraded in May 2019.

In addition to the continuously telemetered high-gain seismic array, three event-triggered strong-motion instruments were added to PVSN. The first strong-motion instrument (station name PVPP) was installed near the PVU injection wellhead in December 1997. A second strong-motion instrument was installed near the PVU extraction facilities (PVEF) in January 1998, and the third was installed at the nearby community of Paradox, Colorado (PVCC) in June 2005. Telemetry for the strong-motion instruments was provided by dial-up phone line. The strong-motion array is designed to measure earthquake ground motions that are large enough to be felt or cause damage and which could saturate high-gain array stations closest to the epicenter.

The original instruments at PVPP and PVEF consisted of 12-bit data loggers (Kinemetrics model SSA-2 and Syscom model MR2002) and three-component force-balance accelerometers (FBAs), with the digitizers only approximately synchronized to Coordinated Universal Time (UTC). In November 1999, station

PVEF was upgraded to use an 18-bit digitizer (Kinometrics model K2), which was synchronized to UTC using a GPS receiver. Station PVPP was similarly upgraded in October 2003. Station PVCC has used a K2 data logger since its original installation in 2005.

On February 28, 2019, the K2 was removed from station PVEF, and three different data loggers and accelerometers were installed for a temporary side-by-side comparison study. These included the following instruments: (1) Reftek model RT130 data logger with Silicon Audio model 203V accelerometer, (2) Reftek RT130 data logger with Nanometrics model Titan accelerometer, and (3) Guralp model Minimus data logger with Guralp model Fortis accelerometer. A wireless TCP/IP bridge was installed to provide continuous real-time telemetry. Since May 2019, the Guralp instruments and a Nanometrics Titan with internal digitizer have been running side-by-side at PVEF, with continuous telemetry.

2. Induced Seismicity

More than 10,000 relatively shallow (≤ 10 km deep) earthquakes have been recorded in the vicinity of Paradox Valley since injection began in 1991. No shallow earthquakes were detected in six years of seismic monitoring prior to the start of injection operations. Most of these events have focal depth estimates between approximately 2.5 and 6.5 km (relative to the ground surface elevation at the PVU injection wellhead), close to the depth of the injection interval (4.3 to 4.8 km). The seismicity has been observed at increasing distance from the injection well over time (Figure II-8). The initial earthquakes were detected just four days after the start of the first injection test in July 1991 and occurred very close to the injection well. As injection continued, earthquakes occurred at progressively increasing radial distances. By 2002, earthquakes were occurring as far as 16 km from the well. The lack of shallow seismicity detected during six years of pre-injection seismic monitoring, the general correlation of the depths of the earthquakes and the depth of injection, and the spatiotemporal evolution of the seismicity since the start of injection demonstrated in Figure II-8 indicate that these earthquakes have been induced by PVU fluid injection.

Several distinct groups, or clusters, of induced seismicity have developed over the history of PVU injection operations. By the end of the injection tests in 1995, earthquakes were occurring to radial distances of roughly 4 km from the well (Figure II-9a). This area of induced seismicity immediately surrounding the injection well is referred to as the “near-well” region. In 1997, about one year after the start of continuous injection, earthquakes began occurring 6 to 8 km northwest of the injection well (Figure II-9b). This group of induced seismicity is called the “northwest (NW) cluster”. In mid-2000, earthquakes were first detected 12 to 14 km from the injection well, along the northern edge of Paradox Valley

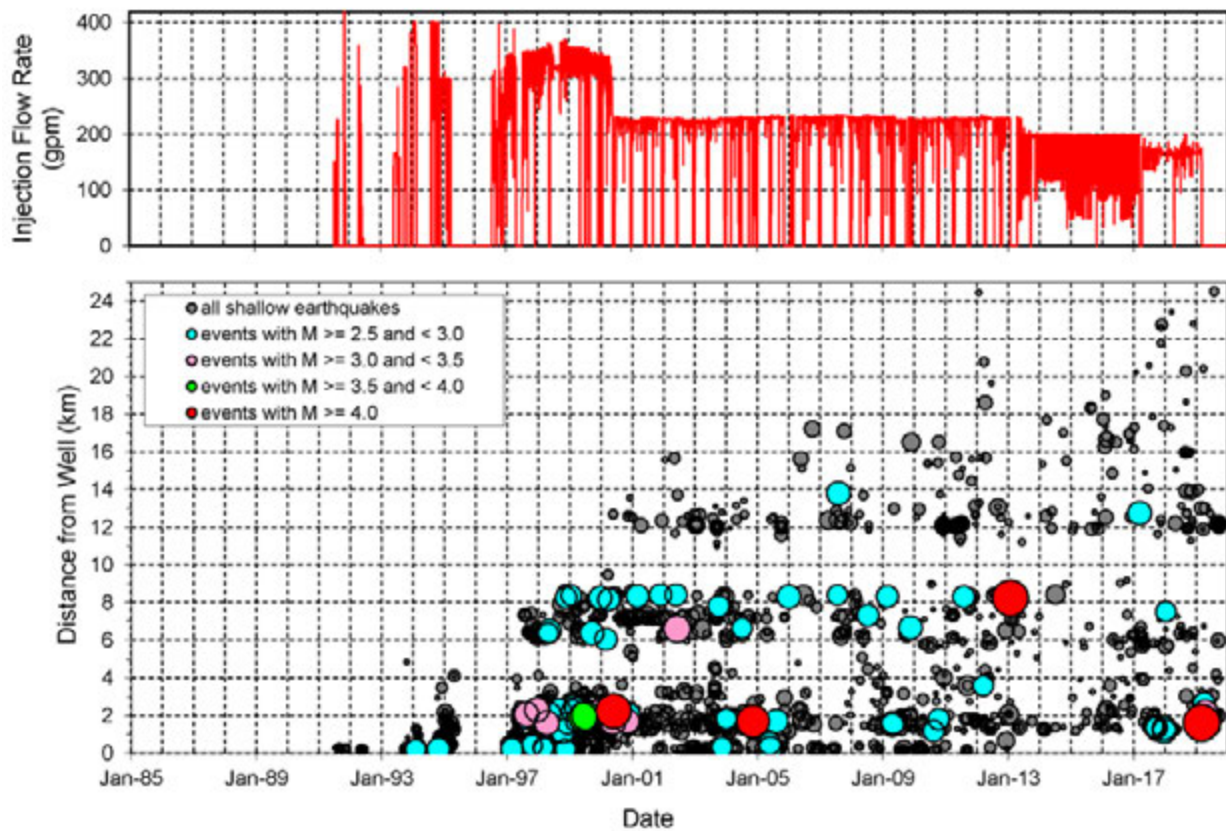


Figure II-8: Lower plot: scatter plot of earthquakes having magnitude ≥ 0.5 and depth ≤ 10 km (relative to the ground surface elevation at the injection wellhead), plotted as a function of date and distance from the PVU injection well. Each circle represents a single earthquake, with the width of the circle scaled by the event magnitude. The magnitudes shown are duration magnitudes for earthquakes with $M < 3.5$ and local magnitudes for $M \geq 3.5$. Upper plot: daily average injection flow rate.

(Figure II-9b). Several distinct clusters of earthquakes soon formed along the northern edges of the valley (Figure II-9c). The earthquakes occurring in all these groups are referred to as “northern valley events”. Following the formation of these clusters (and a 32% decrease in the injection rate in mid-2000), the geographical expansion of induced seismicity greatly slowed for nearly a decade (Figure II-9c, d) but was renewed in 2010. For example, a single earthquake was first detected about 6 km southeast of the injection well in 2004 (Figure II-9c), but the seismicity rate in this area markedly increased beginning in 2010 (Figure II-9e). This tight group of earthquakes is referred to as the “southeast (SE) cluster”. Earthquakes also began occurring in north-central Paradox Valley in 2010. (Figure II-9e). In the last several years, the rate of induced seismicity at the northern end of Paradox Valley has increased and its geographical extent has expanded (Figure II-9e, f, and g). Earthquakes likely related to PVU fluid injection are now occurring at distances up to ~27 km northwest of the injection well and up to ~7 km outside the perimeter of the seismic network (Figure II-9g). In addition, seismicity has occurred in several previously aseismic areas, including: toward the southeast to a distance of ~19 km from the injection well, east toward Uravan to a distance of ~17 km from the well, and west to a distance of ~14 km from the well (Figure II-9e, f, g).

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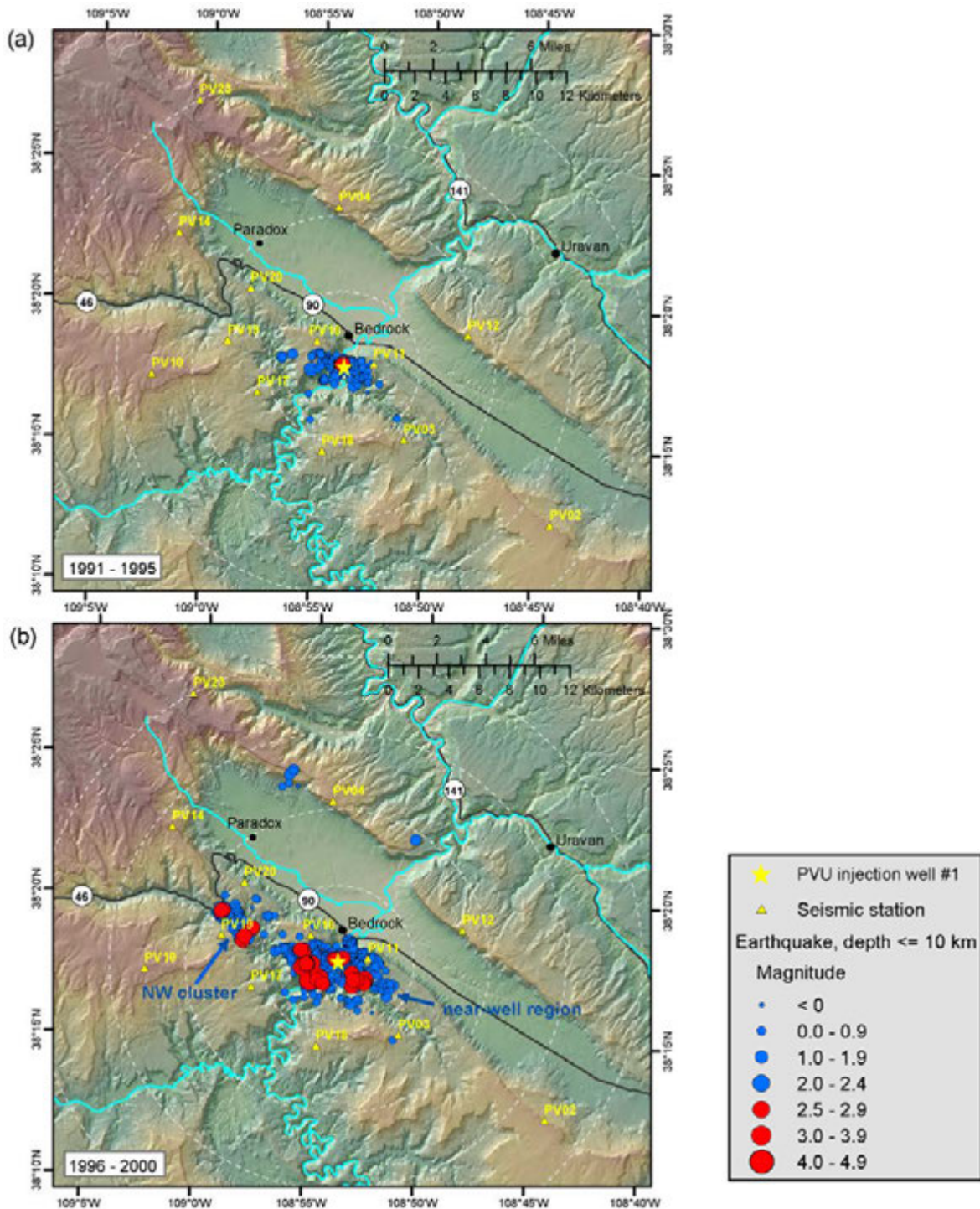
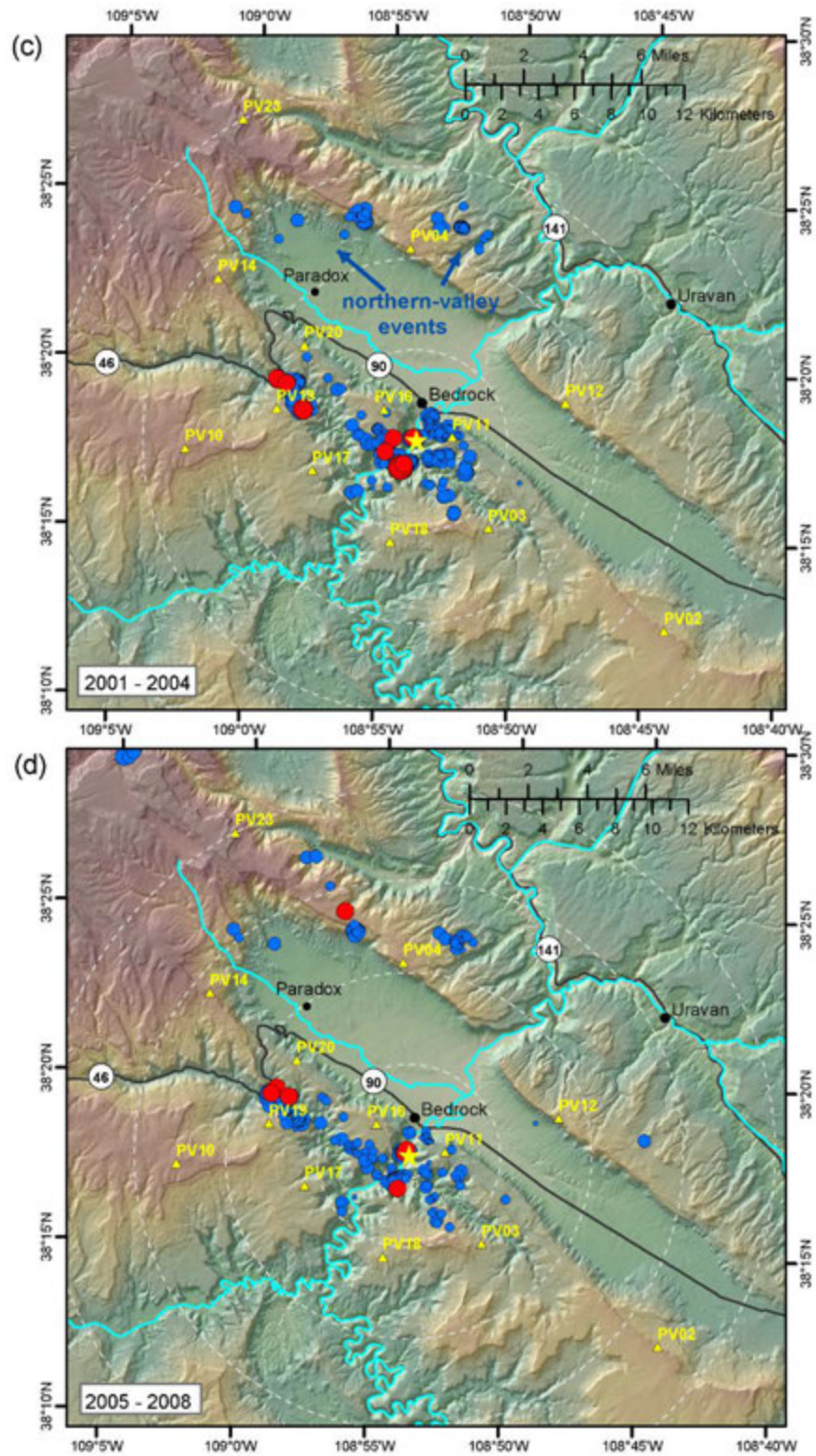
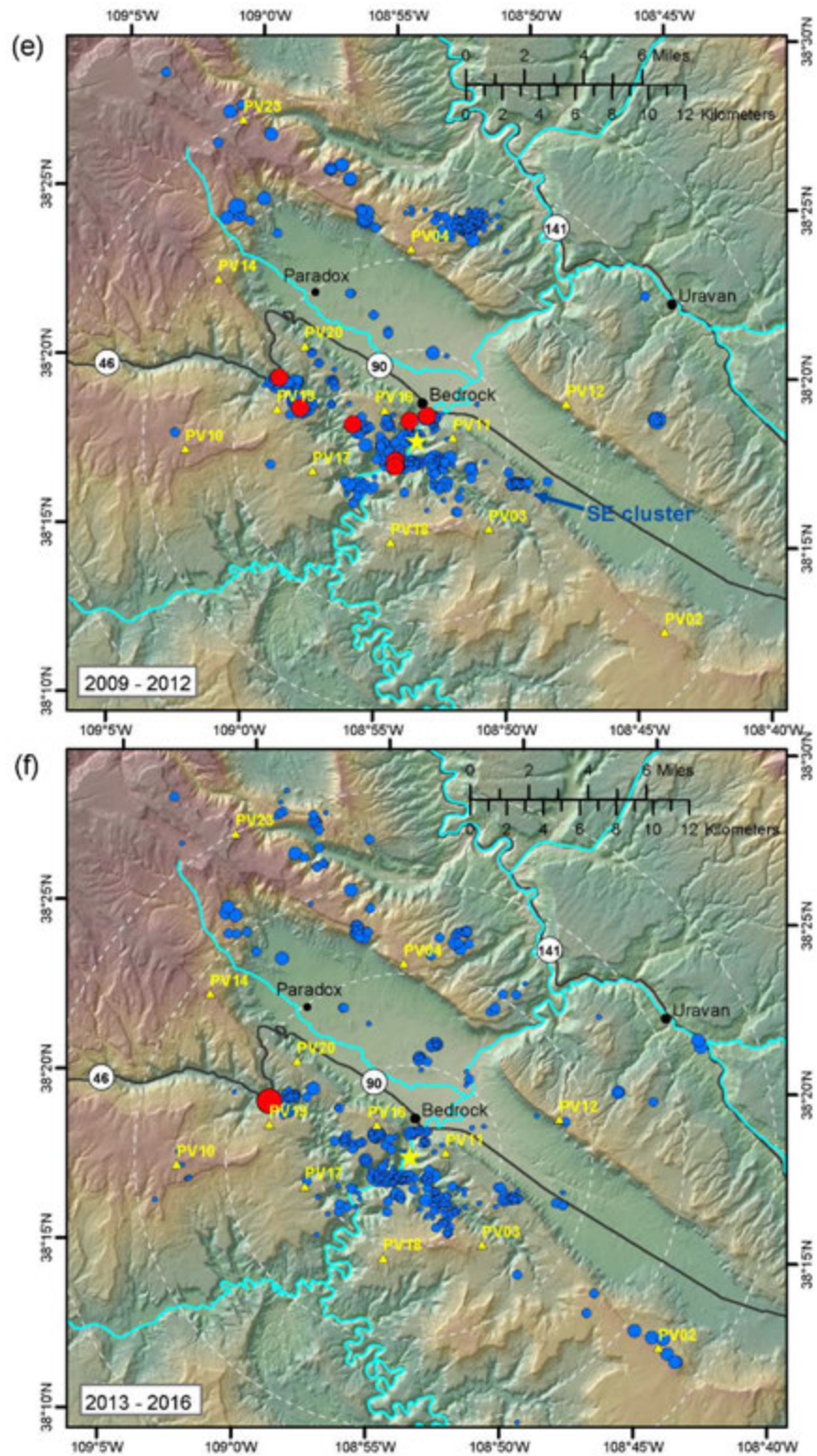


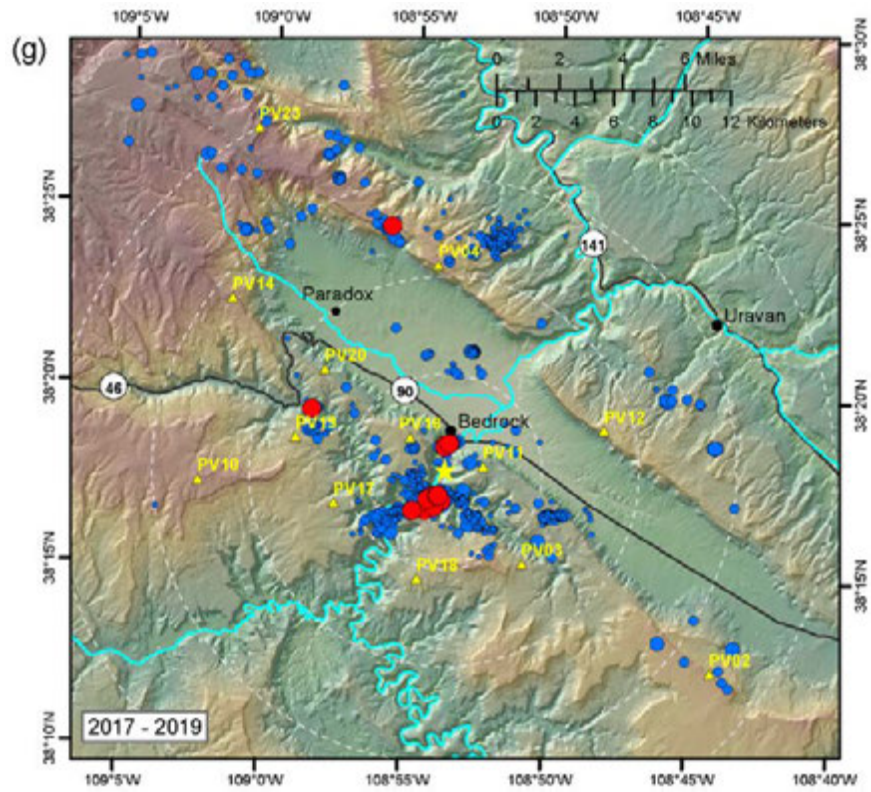
Figure II-9: Maps showing the spatial distribution of shallow seismicity (depth ≤ 10 km) over time: (a) 1991-1995 (b) 1996-2000 (c) 2001-2004 (d) 2005-2008 (e) 2009-2012 (f) 2013-2016 (g) 2017-2019. Earthquake symbols are sized according to magnitude, and earthquakes with magnitudes ≥ 2.5 are shown in red. The dashed gray circles indicate radial distances of 5, 10, 15, and 20 km from the well.

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III. Network Operations during 2019

A. Network Maintenance and Upgrades

Five site visits were conducted during 2019. During these site visits, preventive and remedial maintenance was performed at the 20 broadband seismic stations and at the data communication center at Hopkins Field in Nucla, Colorado. Preventive maintenance performed at the seismic stations included: checking station power systems, replacing aging batteries, testing cables and antennas and replacing any degraded components, testing radios, checking antenna azimuths, and inspecting seismometer vaults. In addition, all GPS antennas purchased prior to 2017 were replaced with new units because a GPS week number roll-over expiration notice from the manufacturer indicated that the old units would stop reporting reliable timing later in the year. Remedial maintenance included: replacing the seismometer at station PV17 after the serial driver in the previous unit failed; replacing the seismometers and GPS antennas at stations PV12 and PV14, because the custom Matrix-5 GPS antennas installed at those sites failed and no other GPS antennas compatible with the old model seismometers were available; and having the generator at Hopkins Field serviced to repair an apparent leaking coolant pump. Additional details of the maintenance activities performed during the 2019 site visits are included in the site visit reports in Appendix A.

In addition to maintenance activities described above, a few upgrades were implemented in 2019. New Guralp model CMG-3ESP broadband seismometers were installed at stations PV12 and PV19, which improved the sensitivity and noise characteristics compared to the previously-installed Guralp model CMG-40T seismometers. The station electronics break-out-boxes (DM24-BOBs) were also replaced at these stations for compatibility with the new seismometers. In addition, these new DM24-BOBs have a more power-efficient design than the older units, which will reduce station power consumption. Finally, the server running the *Scream* data acquisition software at the Hopkins Field data communication center in Nucla was upgraded to 32 GB of memory (RAM), from its previous 8 GB, to improve system robustness.

Several types of strong motion (acceleration) instruments were field-tested during 2019, to evaluate their performance for future instrumentation upgrades. Three sensor/digitizer combinations were initially deployed side-by-side at strong motion site PVEF: Guralp Fortis sensor and Guralp Minimus digitizer; and Silicon Audio 203V sensor and Nanometrics Titan sensor, both recorded with a Reftek RT-130 digitizer. The data from all three sensors were streamed via radio

link to the Hopkins Field data communication center and integrated into the data flow from the PVSN broadband stations, within the *Scream* (from the Guralp Fortis/Minimus) and *Earthworm* (from the Silicon Audio/Titan/Reftek) data acquisition software. The units were deployed in late February 2019. The borrowed Silicon Audio and Titan sensors and Reftek digitizer were retrieved in late April 2019 and returned. At the same time, a Nanometrics Titan integrated sensor/digitizer unit was deployed. The Guralp Fortis/Minimus and Nanometrics Titan units have continued operating side-by-side since then. Based on the equipment specifications and field testing, the Silicon Audio sensor was judged to have the best response, while the data from the Guralp Minimus digitizer integrated most seamlessly into the PVSN data acquisition software. We are currently lab testing a Silicon Audio sensor/Guralp Minmus digitizer combination for future deployment at all three strong motion sites.

B. Network Performance

PVSN network performance depends on the performance of the hardware at individual seismic stations, the robustness of the radio data communication between the stations and the communication hub at Hopkins Field, and the reliability of the data acquisition computer systems. The performance of each of these components during 2019 is discussed below.

Only three of the 20 PVSN broadband seismic stations experienced GPS timing or other hardware failures in 2019 (Table III-1). Stations PV12 and PV14 each lacked GPS timing for roughly two weeks during the year: station PV12 from April 20th to May 2nd and station PV14 from April 15th to May 1st. Timing loss at both stations was due to hardware failure of custom GPS antennas designed and built by Matrix-5 Technologies. These antennas were used because off-the-shelf replacement GPS antennas that are compatible with the old model seismometers installed at these sites could no longer be purchased. The old seismometers at stations PV12 and PV14 were replaced with newer units in May 2019, and compatible new (Guralp) GPS antennas were installed. Station PV17 was offline for a few days, from August 1st to August 6th, due to failure of the data serial driver in the integrated sensor/digitizer seismometer.

One station, PV14, temporarily lost power during 2019. This station experienced a single night-time power failure, from ~9:03 to ~15:06 (UTC) (~6 hours) on February 23rd. The old seismometer at this site has since been replaced with a newer model that requires less power, and one of the electronic components (the DM24-BOB) has also been replaced with a redesigned, more energy-efficient model. These upgrades should reduce the occurrence of future power failures at

Table III-1: Performance of PVSN Seismic Stations During 2019

Station	Performance
PV01	Online and functioning normally throughout the year.
PV02	Online and functioning normally throughout the year.
PV03	Online and functioning normally throughout the year. .
PV04	Online and functioning normally throughout the year.
PV05	Online and functioning normally throughout the year.
PV07	Online and functioning normally throughout the year.
PV10	Online and functioning normally throughout the year.
PV11	Online and functioning normally throughout the year.
PV12	Online and functioning normally during most of the year. Had no GPS timing from 4/20/19 16:20 (UTC) to 5/2/19 22:27 (UTC), due to failure of a custom Matrix-5 GPS antenna.
PV13	Online and functioning normally throughout the year.
PV14	Online and functioning normally during most of the year. Had no GPS timing from 4/15/19 3:00 (UTC) to 5/1 23:36 (UTC), due to failure of a custom Matrix-5 GPS antenna. Experienced one night-time power failure, from ~9:03 to ~15:06 (UTC) (~6 hours) on 2/23/2019.
PV15	Online and functioning normally throughout the year.
PV16	Online and functioning normally throughout the year.
PV17	Online and functioning normally during most of the year. Offline from 8/1/19 19:30:36 (UTC) to 8/6/19 18:54 (UTC), due to a failed serial data driver within the seismometer/digitizer unit.
PV18	Online and functioning normally throughout the year.
PV19	Online and functioning normally throughout the year.
PV20	Online and functioning normally throughout the year.
PV21	Online and functioning normally throughout the year.
PV22	Online and functioning normally throughout the year.
PV23	Online and functioning normally throughout the year.

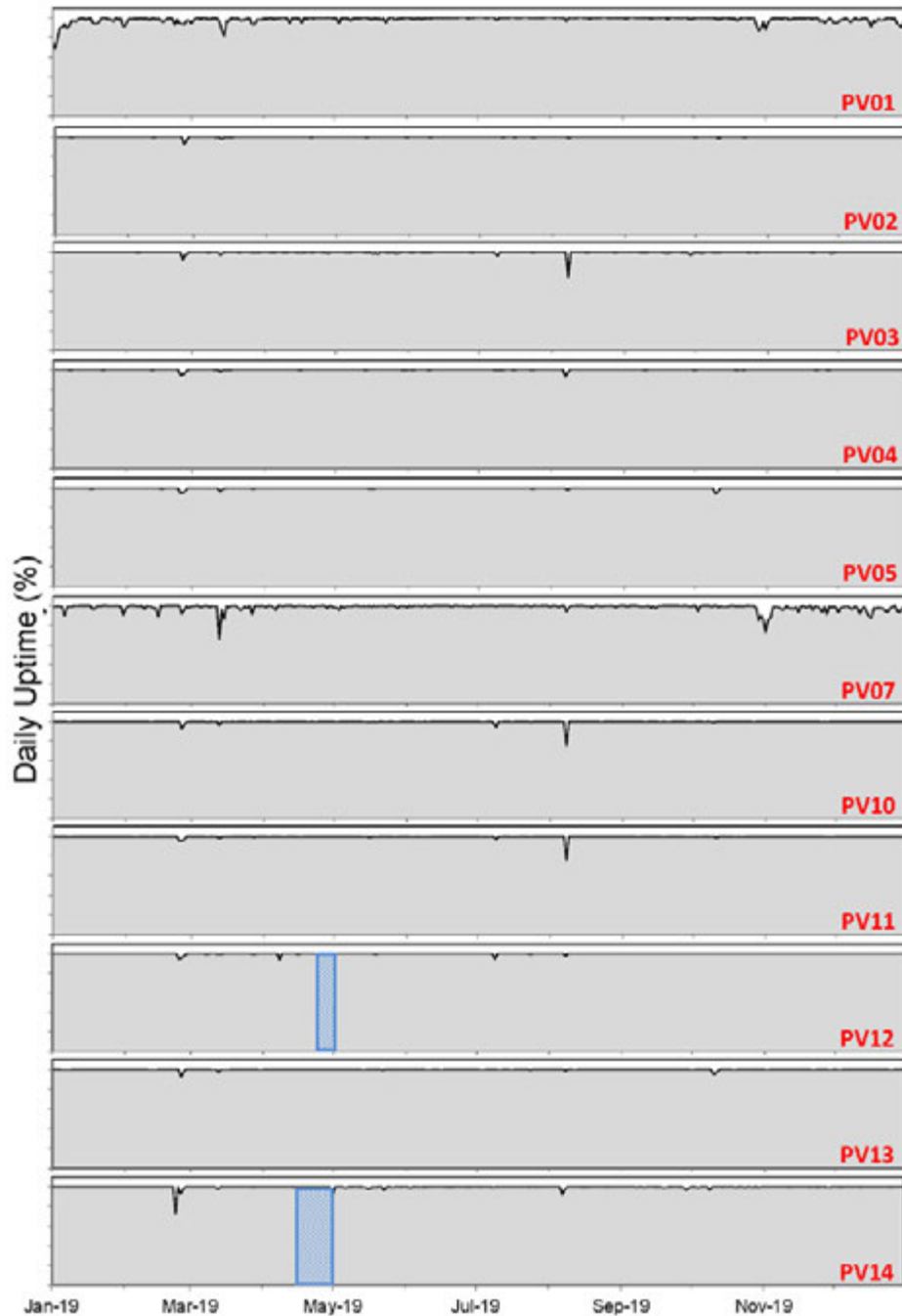


Figure III-1: Daily uptime (%) for the PVSN broadband seismic stations during 2019. The uptime values represent the percent of the day for which data from a given station were recorded. The vertical axes on the plots are scaled from 0 to 110%. Filled gray areas represent daily uptime, while dips in the filled volume show decreases in uptime (lack of data). Shaded blue areas indicate time periods with unreliable station timing.

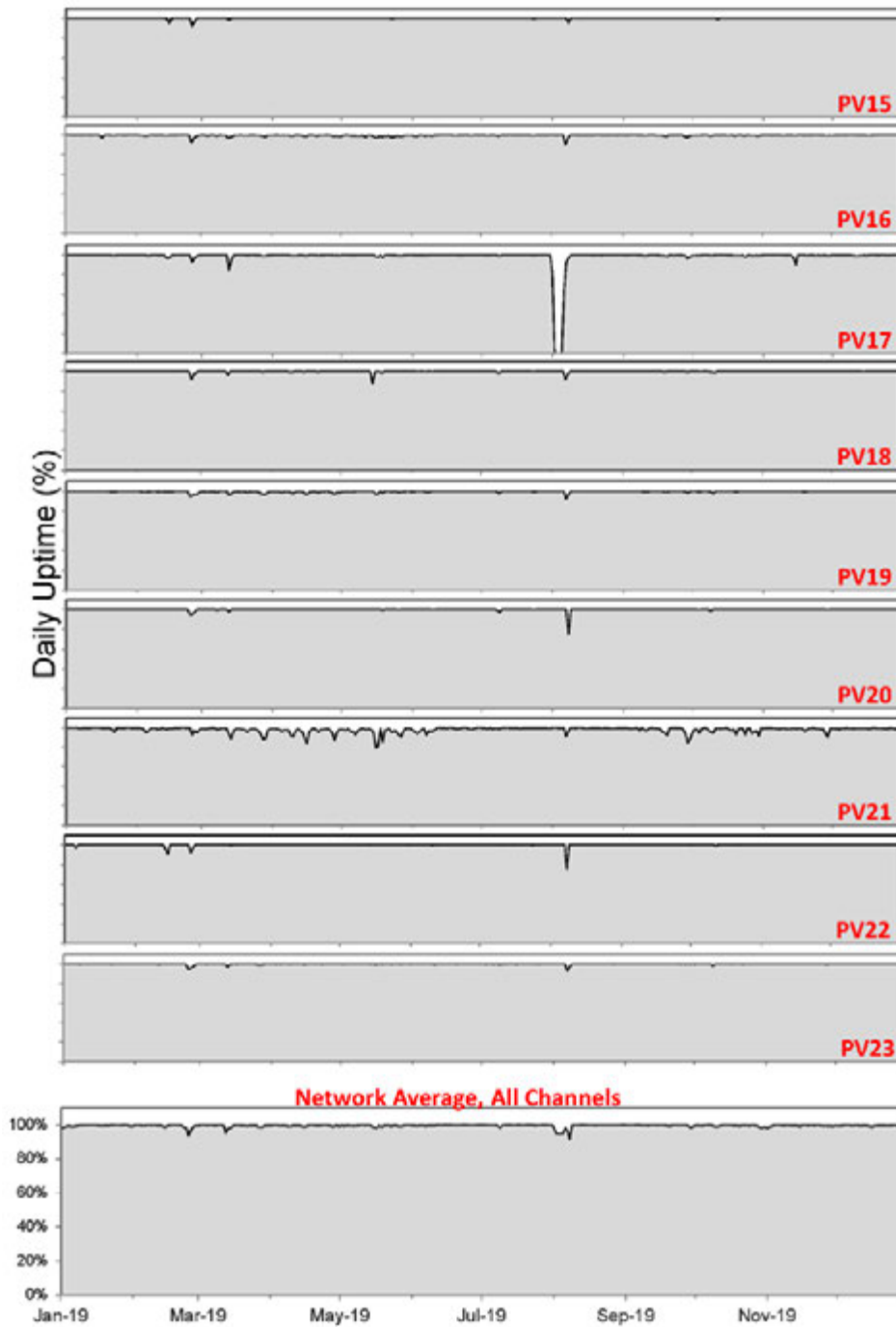


Figure III-1, continued. The bottom plot shows the daily average performance for all PVSN broadband channels.

station PV14. Station PV23, which had experienced multiple winter night-time power failures during each of the last several years, did not experience any power failures during 2019. Hence, replacement of the solar panel regular and batteries at this site the previous year appears to have solved its power problems.

Most stations experienced robust radio communications during 2019, which maintained the network's ability to continuously transmit the seismic data. Three stations (PV01, PV07, and PV21) experienced minor data loss (1% - 2%), due to slightly degraded radio communications (Figure III-1).

The PVSN data acquisition computer systems were online and functioning normally during nearly the entire year. Only one data acquisition downtime occurred. The network was offline for less than an hour on February 25th (from ~22:51 to ~23:35 UTC), so that additional memory (RAM) could be added to the *Scream* data acquisition server at Hopkins Field (Table III-2).

Considering data loss from hardware or power failures at individual seismic stations, radio communication data drop-outs, and PVSN downtimes, the 2019 annual uptimes for the PVSN telemetered high-gain seismic stations range from 98% to 100%, with 16 of the 20 stations having uptimes of 100% (Figure III-2; Table III-3). These uptimes represent the percent of the year for which data from a given station were recorded.

We have been computing and tracking the overall annual uptimes of PVSN since 2000. These annual uptimes are estimates of the percent of each year during which PVSN was reliably detecting and recording earthquakes. They generally represent the percent of the year during which the PVSN data acquisition systems were operating. In 2019, PVSN was offline for less than an hour, corresponding to an uptime of virtually 100.0% (Table III-4).

Table III-2: Times When PVSN Was Down in 2019

Time Period (UTC)	Reason
2/25 ~22:51 to ~23:35 UTC (44 min.)	Installation of additional RAM in <i>Scream</i> server

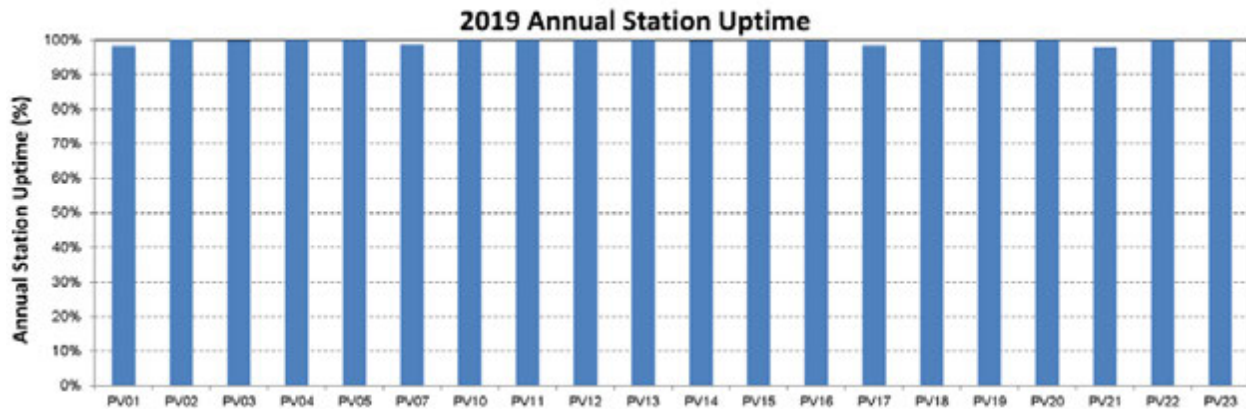


Figure III-2: Graph of annual (2019) uptime for each PVSN telemetered high-gain seismic station.

Table III-3: Annual PVSN Station Uptimes in 2019

Station	Annual Station Uptime in 2019
PV01	98%
PV02	100%
PV03	100%
PV04	100%
PV05	100%
PV07	99%
PV10	100%
PV11	100%
PV12	100%
PV13	100%
PV14	100%
PV15	100%
PV16	100%
PV17	98%
PV18	100%
PV19	100%
PV20	100%
PV21	98%
PV22	100%
PV23	100%

Table III-4: Annual PVSN Uptimes

Year	Annual Number of Days with Monitoring Absent or Degraded	Percent Uptime
2000	24	93.4%
2001*	**	**
2002	5	98.6%
2003	14.5	96.0%
2004	16	95.6%
2005	34	90.7%
2006	47	87.1%
2007	37	89.9%
2008	10	97.2%
2009	6.5	98.2%
2010	0	100.0%
2011	12.2	96.7%
2012	2.2	99.4%
2013	4.6	98.8%
2014 ¹	10.3	97.2%
2015 ²	8.7	97.6%
2016 ³	17.3	95.3%
2017 ⁴	1.2	99.7%
2018	2.4	99.3%
2019	0.03	100.0%
<p>**not tabulated in 2001</p> <p>¹ includes 40.5 hours of downtime in September 2014 when network was operating but event detection was severely degraded due to malfunctioning of the data acquisition software</p> <p>² includes 50% rating for 12 days in February and 5 days in December when network was operating but monitoring was substantially degraded due to absence of data from 8-12 stations simultaneously.</p> <p>³ includes 50% rating for 9 days in August and 22 days in September when network was operating but monitoring was substantially degraded due to absence of data from 14 stations simultaneously.</p> <p>⁴ includes 50% rating for 31 hours in January when network was operating but monitoring was substantially degraded due to absence of data from ≥ 5 stations simultaneously.</p>		

IV. Seismic Data Recorded in 2019

A. Annual Summary

During 2019, there were 2,991 earthquakes recorded within or near the perimeter of PVSN. The map in Figure IV-1 shows the epicenters of these events (colored circles), as well as the epicenters of all earthquakes recorded in previous years (gray and white circles). The local earthquakes recorded during 2019 are classified into four categories based on their depths (relative to the ground surface elevation of 1.524 km above MSL at the PVU injection well) and distances from the injection well:

1. Shallow near-well: depth ≤ 10 km, distance from injection well ≤ 5 km
2. Shallow intermediate: depth ≤ 10 km, distance from injection well > 5 km and ≤ 10 km
3. Shallow distant: depth ≤ 10 km, distance from injection well > 10 km
4. Deep: depth > 10 km, any distance from injection well

The earthquakes are color-coded using these categories in the map presented in Figure IV-1. The numbers and magnitudes of the earthquakes recorded during 2019 in each of the location categories are summarized in Table IV-1. The 2019 local earthquake catalog is included in Appendix B.

All but two of the 2,991 local earthquakes recorded during 2019 have depths ≤ 10 km. Of these relatively shallow earthquakes, 2,230 occurred within 5 km of the injection well, 20 occurred at distances between 5 and 10 km from the well, and 739 occurred > 10 km from the well. Based on the relatively shallow depths of these earthquakes and the geographical expansion of the seismicity since injection began, we interpret these earthquakes as being induced by PVU brine injection.

The two relatively deep events recorded during 2019 occurred a few kilometers east of seismic station PV12, at distances of ~ 15 km and ~ 18 km from the PVU injection well (Figure IV-1, purple circles). The earthquake nearer the injection well has an estimated depth of 11.2 km (relative to the ground surface at the injection well), and the more distant earthquake has an estimated depth of 10.1 km. No earthquakes were detected within ~ 10 km of these two events in 22 years of seismic monitoring prior to 2007. Since the onset of seismicity in this area in 2007, earthquakes have been recorded within ~ 10 km of these earthquakes nearly every year, and the general rate of seismicity in this area has increased. Most earthquakes in this area have depths between 6.3 and 11.3 km, within or slightly

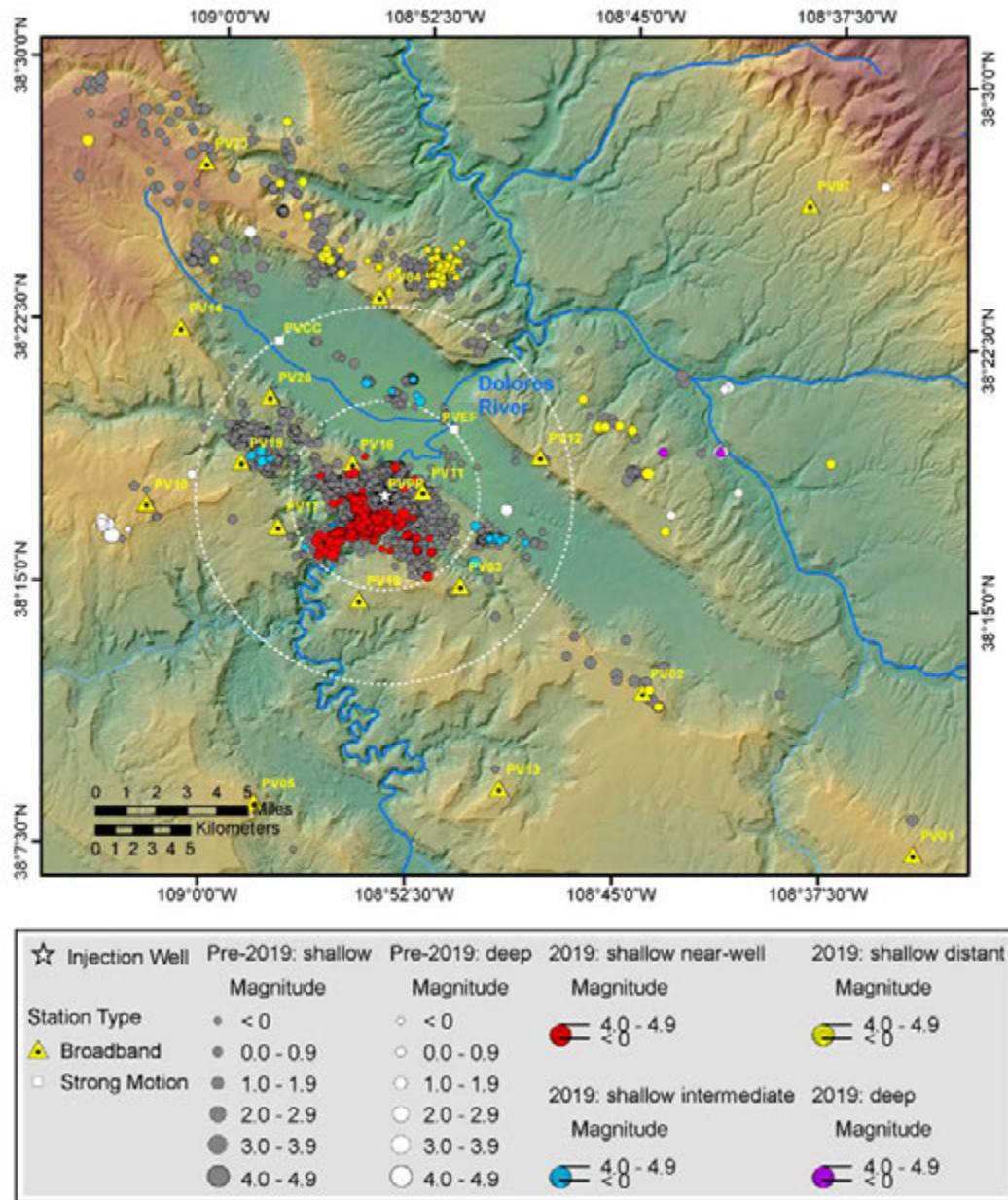


Figure IV-1: Locations of local earthquakes recorded by PVSN during 2019 (colored circles) and previous years (gray and white circles). The events that occurred during 2019 are color-coded using the event location categories described in the text. Events identified as “shallow” have depths ≤ 10 km (relative to the ground surface elevation at the injection well); those identified as “deep” have depths > 10 km. The white dashed circles represent radial distances of 5 and 10 km from the injection well.

deeper than our depth criterion of 10 km for classification of shallow events. The lack of seismicity in this area prior to 2007 and its continued occurrence and generally increasing rate since then suggest that these earthquakes are related to PVU fluid injection.

Seven earthquakes with duration magnitude (M_D) ≥ 2.5 occurred during 2019. This magnitude threshold is significant because it is the approximate minimum magnitude for human detection of earthquakes in the Paradox Valley area. The seven M_D 2.5+ induced earthquakes occurred 1.3 to 2.6 km southwest of the injection well (Figure IV-2). The largest of these earthquakes occurred on March 4, 2019 and has a moment magnitude of M_W 4.5. This earthquake is the largest earthquake induced by the PVU injection well to date. The other six M_D 2.5+ earthquakes are aftershocks of the March 4th main shock. These aftershocks occurred from March to June 2019 and range in magnitude from M_D 2.5 to M_D 3.0.

Table IV-1: Summary of Earthquakes Recorded During 2019 by Location Category

Location Category	Depth	Distance from well	Number of Earthquakes	Number of Earthquakes with $M_D \geq 0.5$	Magnitude Range
shallow near-well	≤ 10 km	0 to 5 km	2230	283	-2.0 – 4.5
shallow intermediate		> 5 to 10 km	20	4	-0.7 – 1.7
shallow distant		> 10 km	739	177	-1.6 – 2.4
TOTAL SHALLOW			2989	464	-2.0 – 4.5
Deep	> 10 km	all distances, within or near perimeter of PVSN	2	1	0.0 – 1.4
TOTAL			2991	465	-2.0 – 4.5

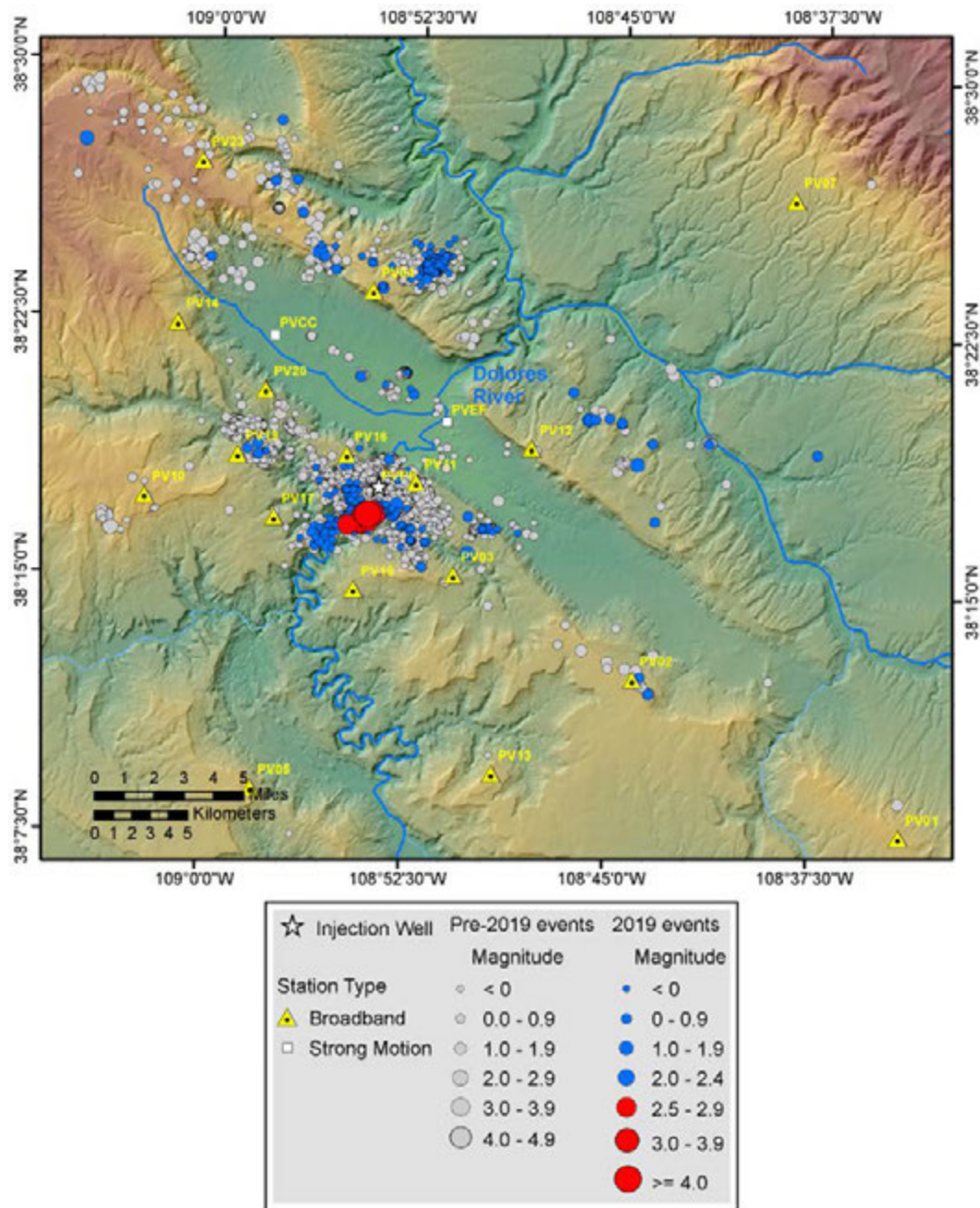


Figure IV-2: Locations of local earthquakes recorded by PVSN during 2019 by magnitude. The earthquakes in 2019 with $M_D \geq 2.5$ are shown in red; those with smaller magnitudes are shown in blue. The epicenters of earthquakes recorded prior to 2019 are shown in gray for reference.

The local earthquakes recorded by PVSN during 2019 are plotted as a function of date, earthquake magnitude, and location category in Figure IV-3. The rate of shallow near-well events was low prior to the occurrence of the March 4th M_W 4.5 earthquake (pink squares). Numerous aftershocks of that earthquake caused the near-well seismicity rate to abruptly increase and remain elevated through the rest of the year. A swarm of distant seismicity occurred during September and early October (Figure IV-3, yellow diamonds). This swarm occurred in a seismicity cluster ~12 km north-northeast of the injection well, just northeast of seismic station PV04 (Figure IV-1).

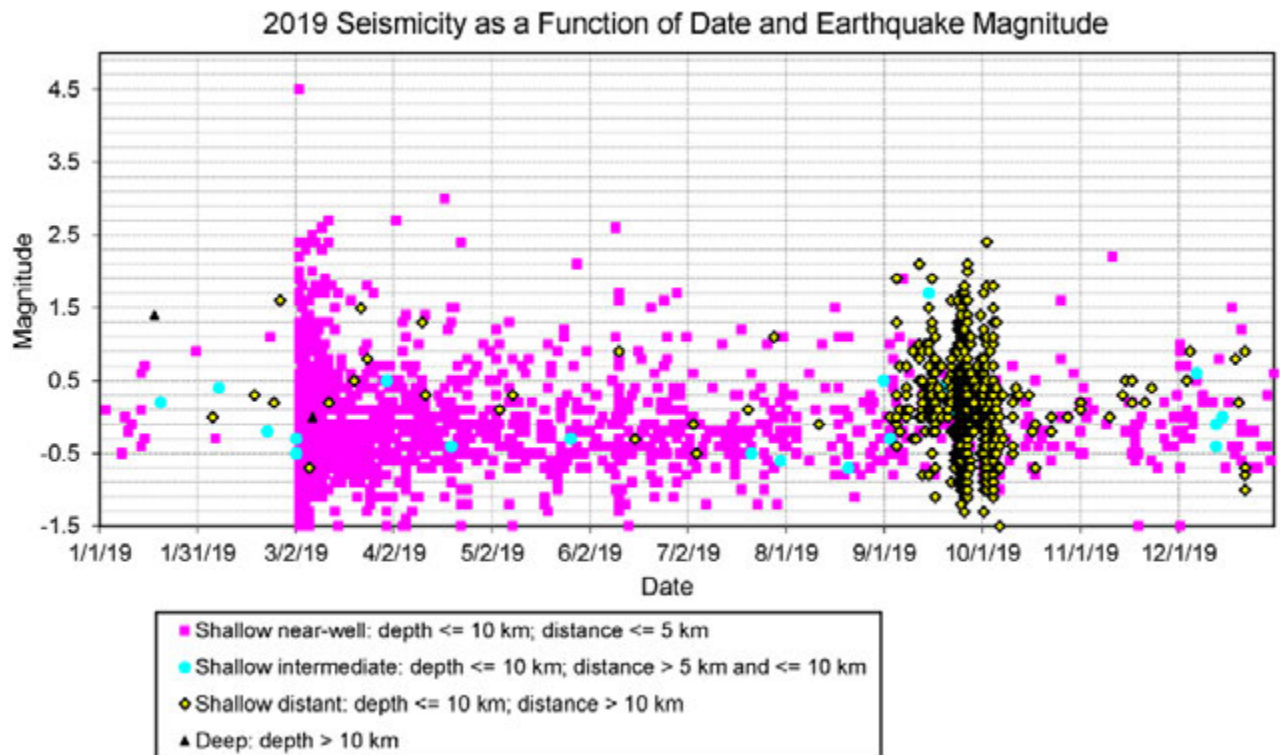


Figure IV-3: Earthquakes recorded by PVSN during 2019 plotted as a function of date, magnitude, and event location category.

B. Seismicity near the Injection Well

A large induced earthquake occurred 1.6 km southwest of the PVU injection well on March 4, 2019, at 10:22:52 am local time (17:22:52 UTC time). It is the largest PVU-induced earthquake to date, with a moment magnitude of M_W 4.5 (as reported by the University of Utah and U.S. Geological Survey, <https://earthquake.usgs.gov/earthquakes/eventpage/uu60315157/executive>). According to reports voluntarily submitted by the public to the U. S. Geological Survey, shaking from the earthquake was felt as far as ~240 km (~150 miles) from the earthquake's epicenter (Figure IV-4). The strongest shaking level reported was intensity level V, corresponding to moderate shaking. This level of shaking can produce very light damage, such as breaking of dishes and windows and overturning of unstable objects. Reclamation performed extensive analyses of the March 4th earthquake and its aftershocks. Details of those analyses are documented in (Block et al., 2020), and some of the major conclusions are presented below.

Based on focal mechanism analysis (Figure IV-5) and aftershock geometry (Figure IV-6), we interpret the rupture that produced the M_W 4.5 earthquake as occurring on a fault striking ~N58°E and dipping 60° to 65° southeast. The rupture plane is approximately 1.3 to 1.6 km in length, with a vertical height of roughly 1 km. Our current interpretation indicates that the fault plane ruptured from near the top of the primary target injection formation, the Leadville, down into the Precambrian basement. The fault rupture appears to be bounded to the southwest by a major NW-trending fault that has been previously interpreted as forming a barrier to fluid flow and pore pressure diffusion from PVU injection (Block et al., 2020).

No increase in the rates or maximum magnitudes of earthquakes in the vicinity of the M_W 4.5 earthquake, or anywhere within 10 km of the injection well, was observed in the year preceding the main shock. Rather, seismicity rates had decreased in 2018 compared to 2017 (69% decrease within 5 km of the well) (Block et al., 2019) and remained low during the first two months of 2019, until the time of the M_W 4.5 earthquake on March 4th.

More than 2000 aftershocks were recorded between the time of the main shock and the end of 2019. Six of these aftershocks have duration magnitude $\geq M_D$ 2.5, large enough to be potentially felt within Paradox Valley. The largest aftershock is an M_D 3.0 (M_W 2.5) earthquake that occurred on April 18th. Aftershocks have occurred as far as 1.7 km from the fault plane that ruptured during the March 4th main shock, indicating that the fault plane rupture altered stress conditions over a wide area. Aftershocks are expected to continue for years, at gradually decreasing rates. Although the large number of aftershocks increased near-well seismicity

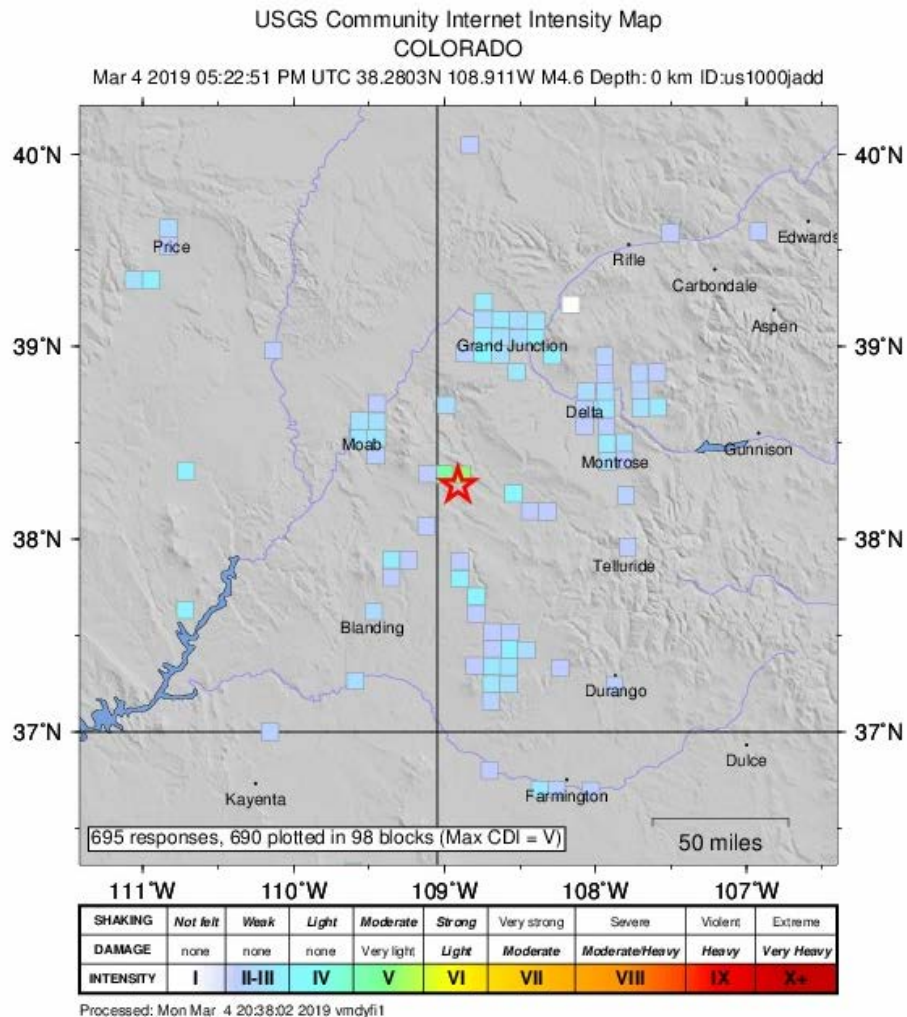


Figure IV-4: Shaking intensities reported by the public for the March 4th 2019 M_w 4.5 earthquake (downloaded from <https://earthquake.usgs.gov/earthquakes/eventpage/uu60315157/dyfi/intensity> in August 2020). The red star represents the epicenter of the M_w 4.5 earthquake.

rates to their highest levels in 20 years, analyses indicate that the occurrence of these events can be attributed solely to stress redistribution from the fault plane rupture that occurred during the M_w 4.5 earthquake (Block et al., 2020). The high seismicity rates do not appear to indicate any other change in reservoir conditions, such as a breach of the confining layer.

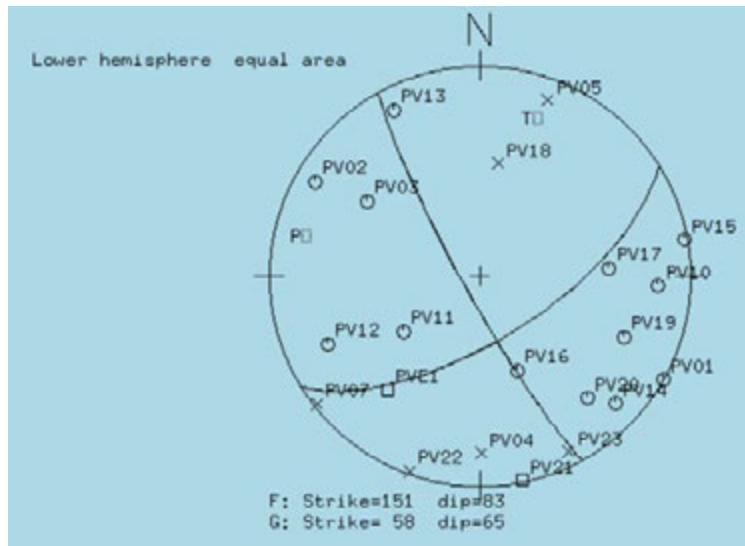


Figure IV-5: First breaks and focal mechanism of the March 4th 2019 M_w 4.5 earthquake. The crosses and open circles represent compressional and dilatational first breaks, respectively.

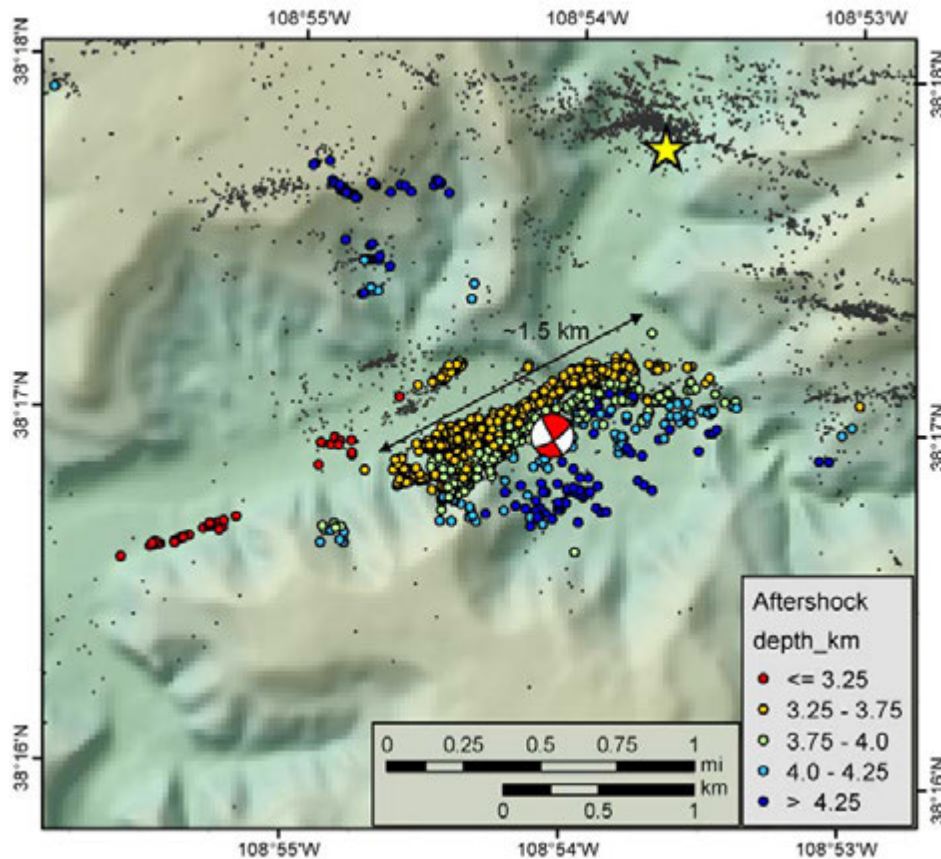


Figure IV-6: Distribution of ~1850 aftershocks with well-constrained hypocenters, recorded between the time of the March 4th M_w 4.5 earthquake and the end of July 2019. Hypocenters were computed with a relative relocation procedure using P-wave and S-wave time differences between events from waveform cross-correlation; the main shock was tied into the relative location using time differences from manual picks because many of its waveforms were clipped. The focal mechanism of the March 4th earthquake is plotted at the location of the event's epicenter.

Peak ground accelerations recorded for the M_w 4.5 earthquake and its largest aftershock are listed in Table IV-2. The table lists the raw peak ground accelerations (PGA) for each component (E – east, N – north, and Z – vertical), which represent the maximum of the absolute value of the as-recorded acceleration time histories, corrected only for instrument sensitivity, but which have not been baseline-corrected (Boore, 2001; Boore et al., 2002). As-recorded PGA values depend on the orientation of the accelerometer relative to the fault plane of an earthquake, and the local geology. A different accelerometer orientation would result in different PGA values. Orientation-independent

measures therefore have been developed for the routine analysis of strong-motion data (Boore, 2010; Boore et al., 2006). We compute two such measures from the sensitivity-corrected and baseline-corrected records: (1) GMRotI50, which represents the median value of the period-independent geometric mean of the as-recorded horizontal components, mathematically rotated through all possible angles; and (2) RotD50, which represents the median value of the period-dependent horizontal components, rotated through all possible angles. In general, these values are similar. GMRotI50 was used for the ground-motion prediction equations (GMPes) of the original Next Generation Attenuation (NGA) project (Power et al., 2008), and RotD50 was used for the NGA-West2 project (Bozorgnia et al., 2014).

Table IV-2: Peak Ground Motion Accelerations Recorded by PVSN Strong-Motion Instruments During 2019. See text for explanation.

Earthquake			Strong Motion Data				
Date (UTC)	Time (UTC)	Mag.	Sta.	Comp.	Raw PGA (g)	GMRotI50 (g)	RotD50 (g)
3/4/2019	17:22:52	M_w 4.5	PVPP	E	0.527	0.487	0.535
				N	0.441		
				Z	0.398		
			PVCC	E	0.099	0.109	0.109
				N	0.125		
				Z	0.056		
			PVEF	E	0.153	0.182	0.186
				N	0.198		
				Z	0.094		
4/18/2019	5:56:59	M_D 3.0	PVPP	E	0.035	0.022	0.023
				N	0.016		
				Z	0.014		
			PVEF	E	0.025	0.044	0.047
				N	0.049		
				Z	0.019		

The strong motion instruments at sites PVPP (PVU pumping plant) and PVCC (Paradox Community Center) operate in trigger-only mode, in which data are recorded only when sufficiently large ground motions are detected. The main shock on March 4th triggered the instruments at both sites. The largest aftershock on April 18th (M_D 3.0; M_W 2.5) triggered the instrument at site PVPP. At the third strong motion site, PVEF (Paradox Valley Extraction Field), new strong motion instruments were deployed for field testing in late February 2019, and the data from these instruments were integrated into PVSN's radio telemetry network (see section III.A). Hence, data from these instruments are continuously transmitted to the Hopkins Field data communication center in Nucla, Colorado, where they are recorded with the data from the broadband stations whenever the data acquisition system detects an event. Hence, peak ground accelerations at PVEF can be determined for any earthquake that produces reasonable signal-to-noise ratio at that site.

Hypocenters of the earthquakes that occurred in 2020 within 7 to 9 km of the injection well are compared to those from previous years in the map in Figure IV-7 and in the vertical cross sections in Figure IV-8. In these figures, the earthquakes that occurred during 2019 and those that occurred in previous years are each separated into two categories based on how precise the computed hypocenters are relative to the other events. The best earthquake locations were computed using a relative earthquake location method employing precise arrival time differences between pairs of earthquakes (computed using waveform cross-correlation). The poorer earthquake locations were computed independently using manually determined absolute arrival times, because their waveform data were either not of sufficient quantity or quality to include these events in the relative location. As seen in the map and cross sections, the earthquakes induced within ~7-9 km of the injection well during 2019 occurred in or near areas of previous seismic activity, including the M_W 4.5 earthquake and its aftershocks. The overwhelming majority of earthquakes that occurred within 5 km of the injection well in 2019 are near the fault plane that ruptured during the M_W 4.5 earthquake; seismicity rates in other parts of the near-well region remained relatively low during 2019 (Figure IV-7).

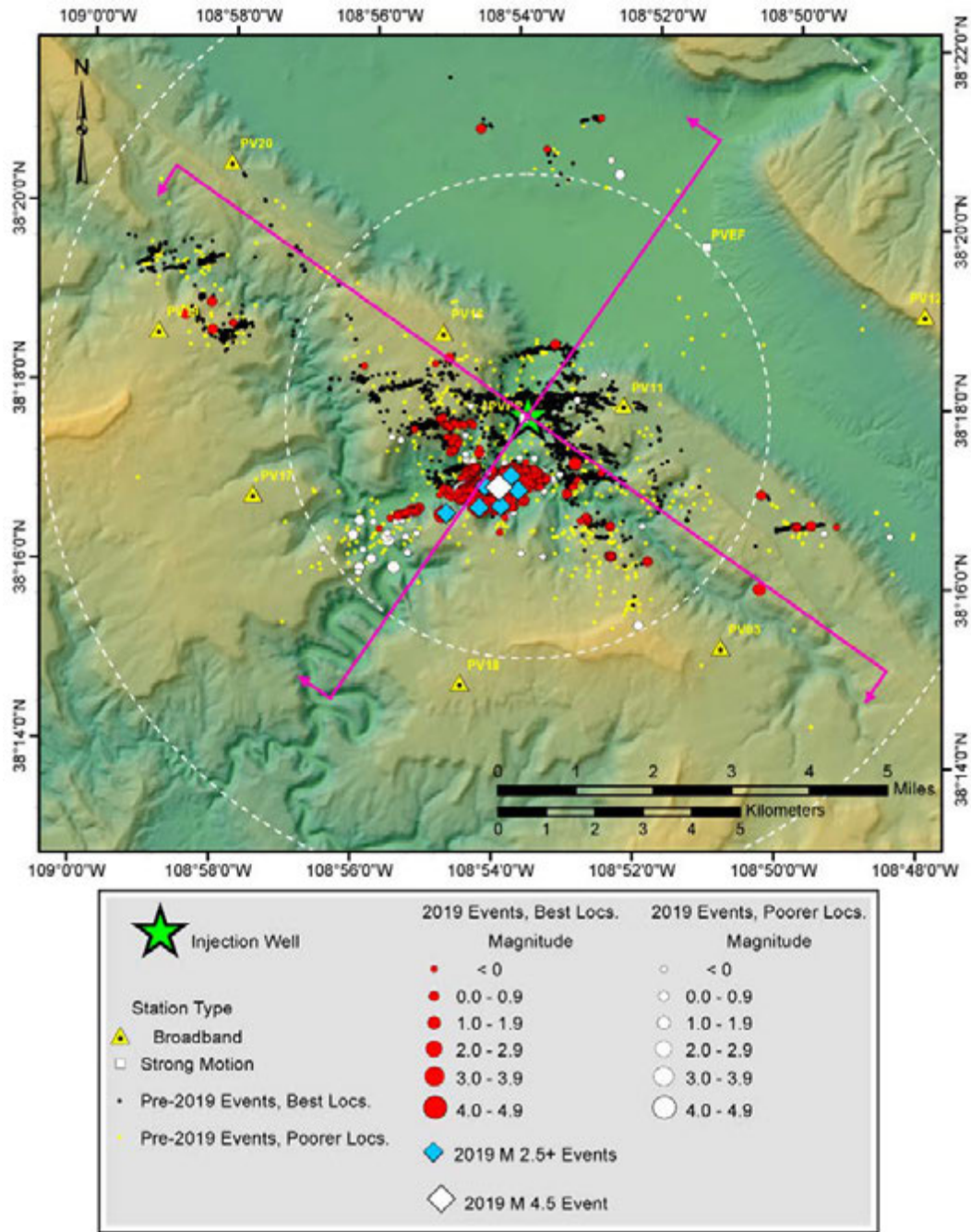
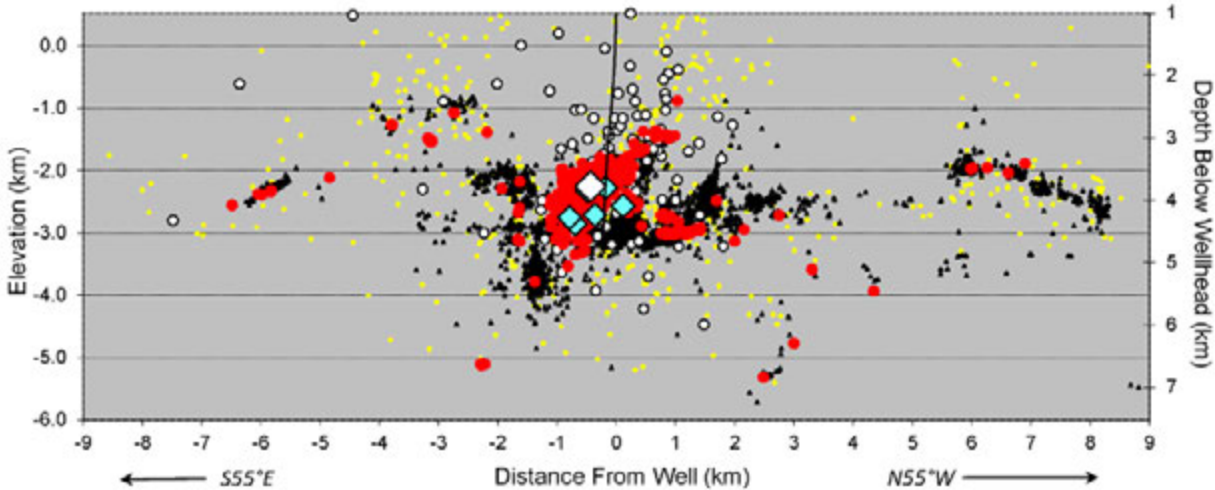


Figure IV-7: Map showing the epicenters of earthquakes (≤ 10 km depth) in the vicinity of the injection well in 2019, compared to the locations of previously-induced events. The white dashed circles indicate radial distances of 5 and 10 km from the injection well. The magenta lines indicate the orientations of the cross sections presented in Figure IV-8.

(a) Cross section parallel to Paradox Valley, looking to the southwest



(b) Cross section perpendicular to Paradox Valley, looking to the northwest

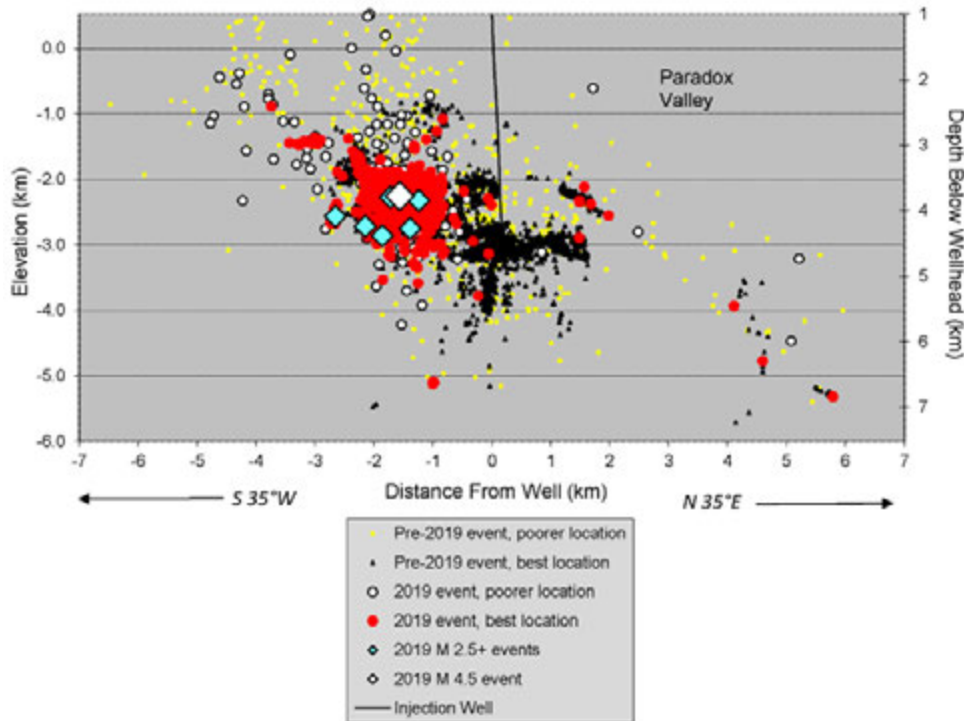


Figure IV-8: Vertical cross sections showing the hypocenters of earthquakes occurring within approximately 7-9 km of the injection well in 2019, compared to the locations of previously-induced events: (a) section parallel to Paradox Valley (b) section perpendicular to Paradox Valley. The orientations of the cross sections are indicated by the magenta lines in Figure IV-7.

C. Distant Earthquakes

During 2019, 741 local earthquakes were detected at distances greater than 10 km from the injection well. All but two of these events have depths ≤ 10 km, and the depths of the two deeper earthquakes (10.1 and 11.2 km) are only slightly greater than our depth criterion for event classification. Based on the spatiotemporal evolution of the earthquakes in these areas observed since monitoring began in 1985, we interpret the 741 distant earthquakes recorded during 2019 as being induced by the PVU injection well.

Of the 741 distant earthquakes recorded in 2019, 725 (98%) occurred at or near the northern end of Paradox Valley (Figure IV-1), where seismicity has been detected every year since 2000. For comparison, 119 events occurred in this northern-valley region in 2018, 59 in 2017, and 29 in 2016. Of the 725 northern-valley earthquakes recorded in 2019, 172 have $M_D \geq 0.5$ (compared to 25 such events in 2018), 69 earthquakes have $M_D \geq 1.0$ (compared to eight in 2018), and 5 earthquakes have $M_D \geq 2.0$ (compared to zero in 2018). Historically, the annual number of northern-valley events has varied widely, ranging from 2 to 557 events per year from 2000 to 2018. Although the total number of northern-valley events in 2019 was anomalously high compared to historical trends (725), this is partially due to improved event detection capabilities in the northern-valley area since 2011 when additional seismic stations were installed. When considering only earthquakes with $M_D \geq 0.5$ (M 0.5+), the historical PVSN magnitude completeness threshold, the number of northern-valley M_D 0.5+ earthquakes in 2019, 172, is the second-highest annual rate observed. This rate was only exceeded in 2010, when 226 M_D 0.5+ northern-valley earthquakes were recorded. The northern-valley earthquakes recorded during 2019 range in magnitude from M_D -1.6 to M_D 2.4. Depth estimates of these earthquakes range from 2.9 to 7.7 km (relative to the ground surface at the PVU injection well), consistent with depth estimates of previous northern-valley events.

Most of the northern-valley events recorded in 2019 occurred during a swarm of activity in September and early October (see Figure IV-3), in a cluster ~3-4 km northeast of seismic station PV04 (Figure IV-1). This cluster has historically been the most active seismicity cluster in the northern-valley area and previously experienced seismicity swarms in 2010 and 2011.

The seismicity in the northern-valley area is expanding to the northwest, beyond the northwest perimeter of the Paradox Valley Seismic Network (Figure IV-1). Uncertainties in the computed locations and depths of earthquakes greatly increase when they occur outside the perimeter of the seismic network. Earthquakes are already occurring up to roughly 7 km outside the northwest

perimeter of PVSN. Hence, it will be difficult to monitor the further expansion of the seismicity to the northwest with the current network configuration.

In addition to the continued distant seismicity at the northern end of Paradox Valley, local earthquakes occurred at large distances from the injection well at other azimuths during 2019. Twelve shallow earthquakes (depth ≤ 10 km; Figure IV-1, yellow circles east of seismic station PV12) and two slightly deeper events (Figure IV-1, purple circles) occurred east of Paradox Valley and south of the Dolores River, at distances of ~ 12 km to ~ 24 km from the well. The magnitudes of these events range from $M_D 0.0$ to $M_D 1.5$, and their depth estimates range from 5.2 to 11.2 km. Earthquakes have occurred in this area since 2007, and rates have generally increased over time.

Two shallow earthquakes occurred 17.4 and 18.3 km southeast of the injection well during 2019 (Figure IV-1, yellow circles near seismic station PV02). The magnitude of the closer event is $M_D 0.0$, and its depth estimate is 4.7 km. The farther event has a magnitude of $M_D 0.9$ and a depth estimate of 5.5 km. Seismicity was first detected in this area in 2014.

D. Comparison to Seismicity from Previous Year

The numbers of earthquakes observed within 5 km of the injection well and at distances greater than 10 km from the well increased markedly in 2019 compared to 2018, while the number of earthquakes in the intermediate distance range (5-10 km) substantially decreased (Table IV-3). During 2019, 2230 earthquakes were detected within 5 km of the injection well, compared to 83 events in 2018, an increase of 2,587%. As discussed earlier, most of these events are aftershocks of the $M_W 4.5$ earthquake that occurred on March 4th, and relatively few earthquakes occurred in other parts of this near-well region (see the map in Figure IV-7, for example). Hence, this large increase in near-well seismicity rate is due to the redistribution of stress associated with the rupture of the fault plane during the $M_W 4.5$ earthquake and therefore is only indirectly related to pressure and stress changes from injection. At distances > 10 km, the number of earthquakes increased from 131 in 2018 to 741 in 2019, an increase of $\sim 466\%$. These numbers include both the shallow earthquakes (depth ≤ 10 km) and the few slightly deeper events (depth 10-11.5 km), since all the earthquakes in these distant clusters appear to be related to PVU injection. In the intermediate distance range (5-10 km), the number of earthquakes decreased from 41 in 2018 to 20 in 2019, a decrease of 51%.

Because the ability to detect very small earthquakes can vary over time, depending on both the operating status of the seismic network and background

seismic noise levels, more robust estimates of the variation in seismicity rate are determined by comparing the occurrence of earthquakes with magnitude $\geq M_D 0.5$ (PVSN's approximate magnitude completeness threshold). These values are presented in Table IV-4. Large increases in seismicity rates are still observed within 5 km of the well (1921%) and at distances greater than 10 km (493%). The decrease in rate of events with $M_D \geq 0.5$ at intermediate distances (5-10 km) is 69%.

Table IV-3: Number of Earthquakes of All Magnitudes Recorded in 2018 and 2019

Distance Range (km)	Number of Events Recorded in 2018	Number of Events Recorded in 2019	Percent Change
0 to 5	83	2230	2587%
> 5 to 10	41	20	-51%
> 10	131	741	466%

Table IV-4: Number of Earthquakes With Magnitude $\geq M_D 0.5$ Recorded in 2018 and 2019

Distance Range (km)	Number of Events Recorded in 2018	Number of Events Recorded in 2019	Percent Change
0 to 5	14	283	1921%
> 5 to 10	13	4	-69%
> 10	30	178	493%

The numbers of earthquakes recorded during 2018 and 2019 are plotted as a function of magnitude in Figure IV-9. Individual histograms are shown for earthquakes within 5 km of the injection well, for those at distances of 5 to 10 km from the well, and for events > 10 km from the well. These radial distances are indicated by the white dashed circles on the map in Figure IV-7. Normalized cumulative magnitude vs. log-frequency plots of the same data are presented in Figure IV-10. Because of the large number of aftershocks of the March 2019 M_W 4.5 earthquake, seismicity rates in the 0-5 km distance range were higher for all magnitudes in 2019 compared to 2018 (upper plot in Figure IV-9). The maximum earthquake magnitude increased from M_D 1.7 in 2018 to M_W 4.5 in 2019. For the 5-10 km distance range, seismicity rates were lower for most magnitudes in 2019

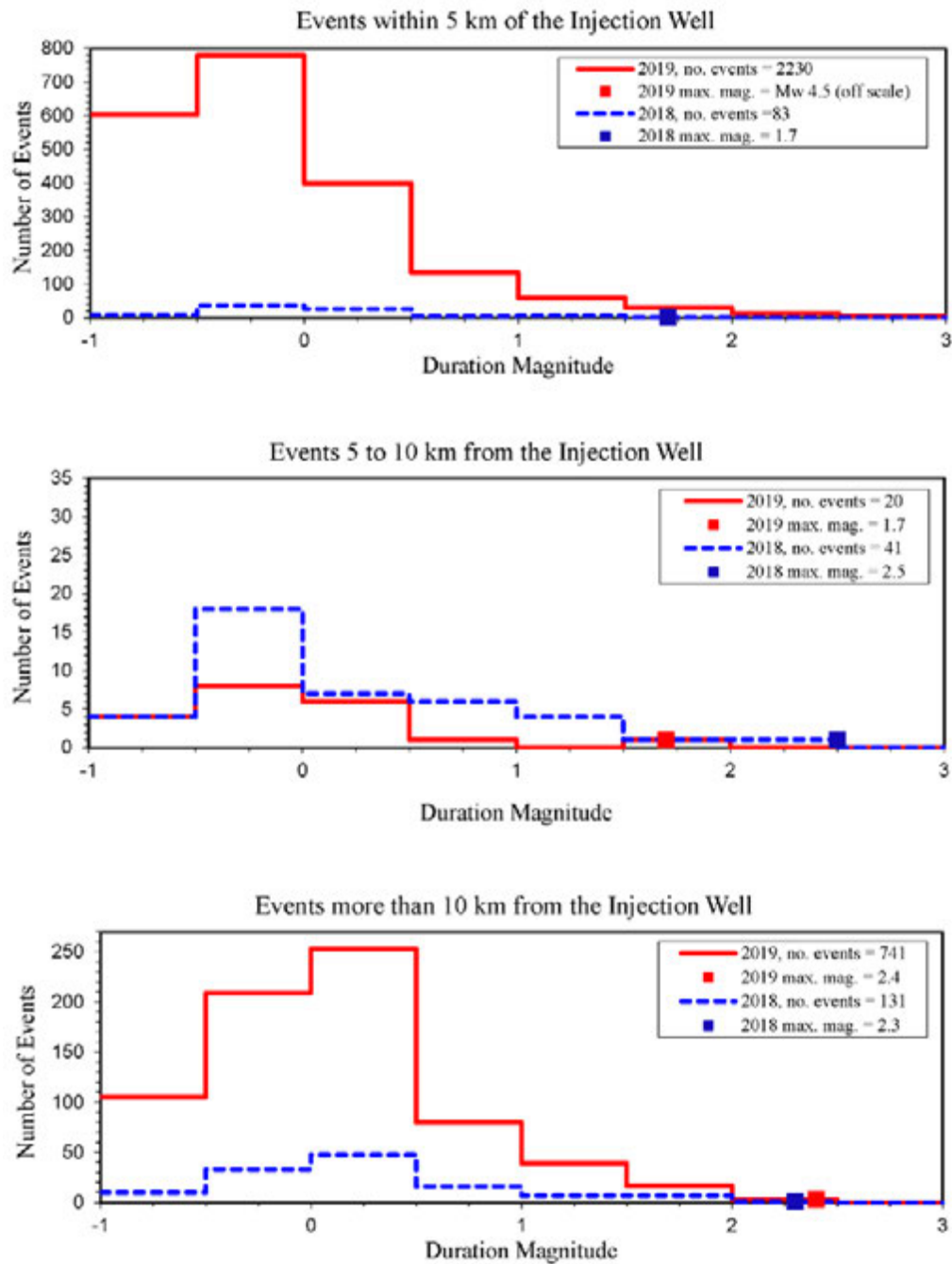


Figure IV-9: Magnitude histograms of events within 5 km of the injection well (top), at distances of 5 to 10 km from the well (middle), and more than 10 km from the well (bottom) during 2019 (solid red lines) and 2018 (dashed blue lines). The squares indicate the maximum earthquake magnitude for a given distance range and year. The maximum earthquake magnitude for events within 5 km of the well in 2019 is off the scale of the plot (M_w 4.5).

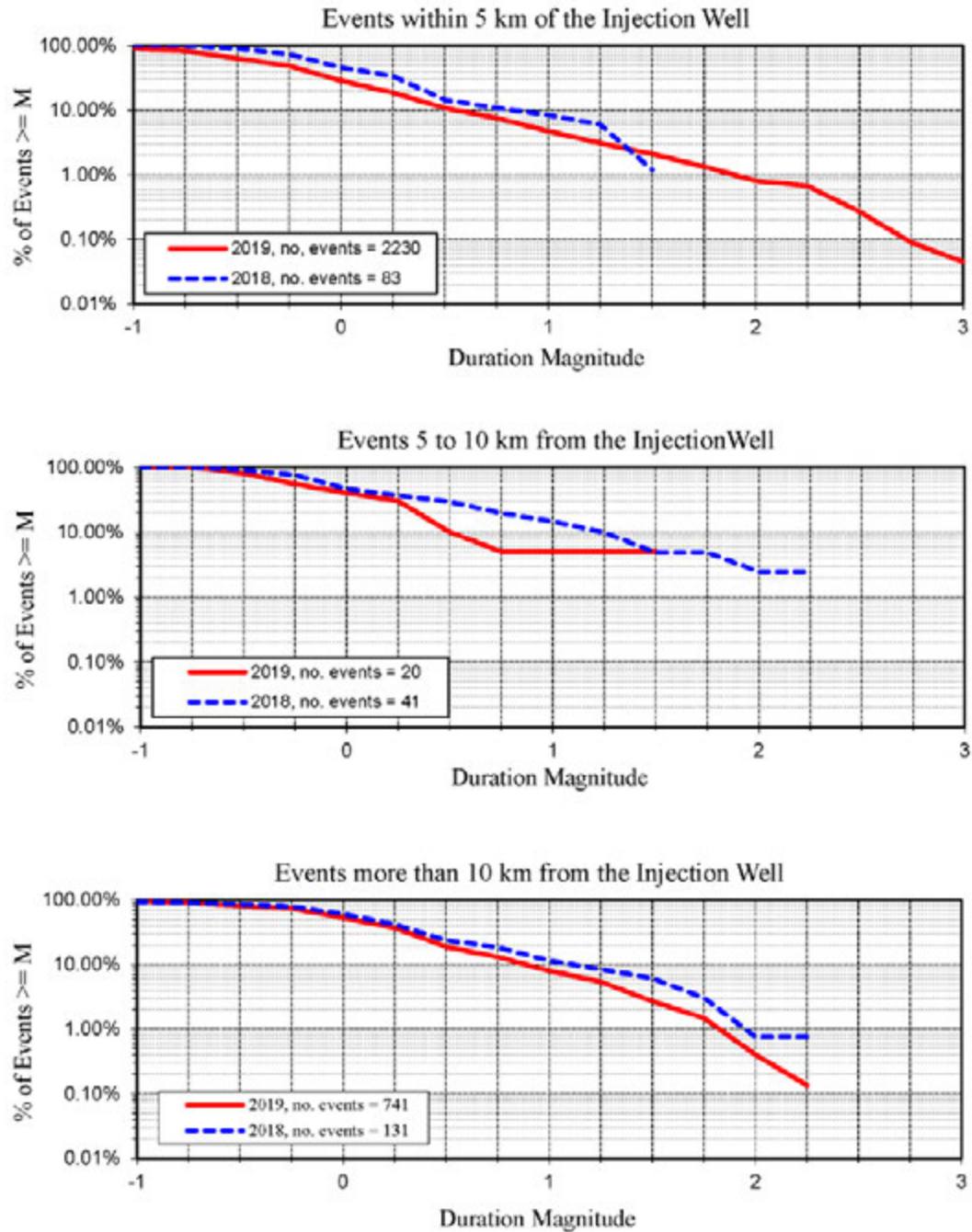


Figure IV-10: Cumulative magnitude-(log)frequency plots of events within 5 km of the injection well (top), at distances of 5 to 10 km from the well (middle), and more than 10 km from the well (bottom) during 2019 (solid red lines) and 2018 (dashed blue lines).

compared to 2018 (middle plot in Figure IV-9). The maximum earthquake magnitude for this distance range decreased from M_D 2.5 in 2018 to M_D 1.7 in 2019. For earthquakes occurring more than 10 km from the injection well (including those with both shallow and slightly deeper hypocenters), seismicity rates increased for nearly all magnitudes in 2019 compared to 2018 (lower plot in Figure IV-9). The maximum earthquake magnitude for this distance range increased slightly from M_D 2.3 in 2018 to M_D 2.4 in 2019. For all distance ranges, the normalized cumulative (log) histograms are similar in 2018 and 2019, indicating no substantial change in event detection capability or ratio of smaller-to larger-magnitude events (Figure IV-10). The number of events in the 0.25 to 1.25 magnitude range appears to be under-represented in the data for the 5-10 km distance range for 2019 (Figure IV-10, middle plot), but given the small sample size (20 events), this is likely not meaningful.

E. Historical Seismicity Trends

The rates and magnitudes of earthquakes that occurred during 2019 are compared to the historical seismicity trends in three plots described below. Only events with $M_D \geq 0.5$ are included in these plots, since the detection capability for earthquakes with magnitudes less than this threshold has varied considerably over the history of PVSNN. First, the bubble plots in Figure IV-11 show the historical occurrence of seismicity (depth ≤ 12 km) as a function of date and earthquake magnitude during long-term injection at PVU (1996-2019). The area of each circle in these plots is scaled by the number of earthquakes in a given quarter-year and magnitude range. Individual bubble plots are included for earthquakes occurring within 5 km of the injection well, between 5 and 10 km from the well, and more than 10 km from the well. The downhole injection pressures, averaged over varying lengths of time, are included in Figure IV-11 for reference. In order to better observe the trends in recent years, similar plots that only include data from 2009-2019 are presented in Figure IV-12. Lastly, we show the annual seismicity rates for 2009-2019, for the different distances from the well, in Figure IV-13.

These plots show that both the seismicity rate and maximum earthquake magnitude for the near-well area (within 5 km of the well) were anomalously high in 2019 compared to historical levels. The M_W 4.5 earthquake that occurred in March 2019 is the largest earthquake induced by the PVU injection well to date (at any distance), and the numerous aftershocks of that event resulted in the highest near-well seismicity rates in 20 years (Figure IV-11b). More M_D 0.5+ earthquakes were recorded within 5 km of the injection well in 2019 than in the preceding ten years combined (Figure IV-13a). However, because the recent high near-well seismicity rates are due to aftershocks triggered by stress redistribution

following the M_W 4.5 earthquake, they do not indicate an increase in seismicity directly triggered by injection-related pressure and stress changes.

The seismicity rates at distances of 5 to 10 km from the injection well in 2019 were relatively low compared to historical trends. The 2019 annual rate of M_D 0.5+ earthquakes in this distance range was 69% lower than the 2018 rate and 71% lower than the average rate for the last ten years (2009-2018) (Figure IV-13b). The maximum earthquake magnitude in this intermediate distance range in 2019 was low compared to long-term historical trends but typical of trends for the last few years. Figure IV-11c and Figure IV-12c indicate that the maximum earthquake magnitude in this distance range was between M_D 1.5 and M_D 2.0 in 2019. The maximum earthquake magnitude has only been at or below this level for four of the previous 22 full years of injection but has been in this range for three of the last four years (2015, 2016, and 2017).

The annual rate of distant M 0.5+ events, those occurring more than 10 km from the injection well, has been increasing since 2013 (Figure IV-13c). The seismicity rate increased by an exceptionally large amount in 2019, being 424% higher than the 2018 rate and 889% higher than the 2017 rate. The 2019 annual rate of distant seismicity was the second highest in history, exceeded only by the annual rate in 2010 (which was 27% higher than the 2019 rate). The maximum magnitude of the distant induced earthquakes in 2019, M_D 2.4, was typical compared to historical trends (Figure IV-11d).

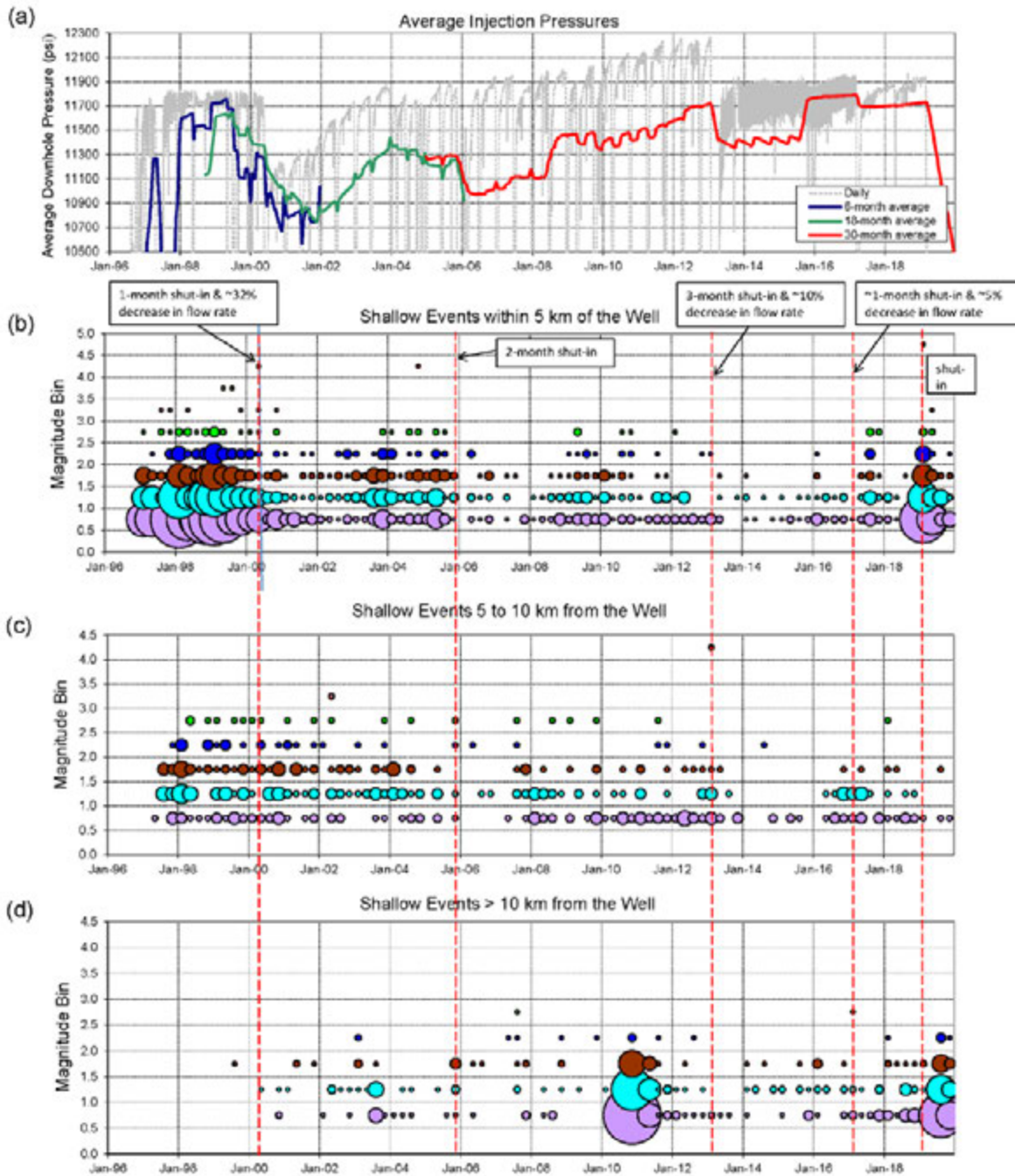


Figure IV-11: Injection well downhole pressure data averaged over daily, 6-month, 18-month, and 30-month time periods (a) and occurrence of seismicity (depth ≤ 12 km) as a function of date and magnitude: within 5 km of the injection well (b), at distances of 5 to 10 km from the well (c), and more than 10 km from the well (d). In the seismicity plots, the area of each circle is scaled by the number of earthquakes in a given quarter-year and magnitude range; each plot is scaled independently.

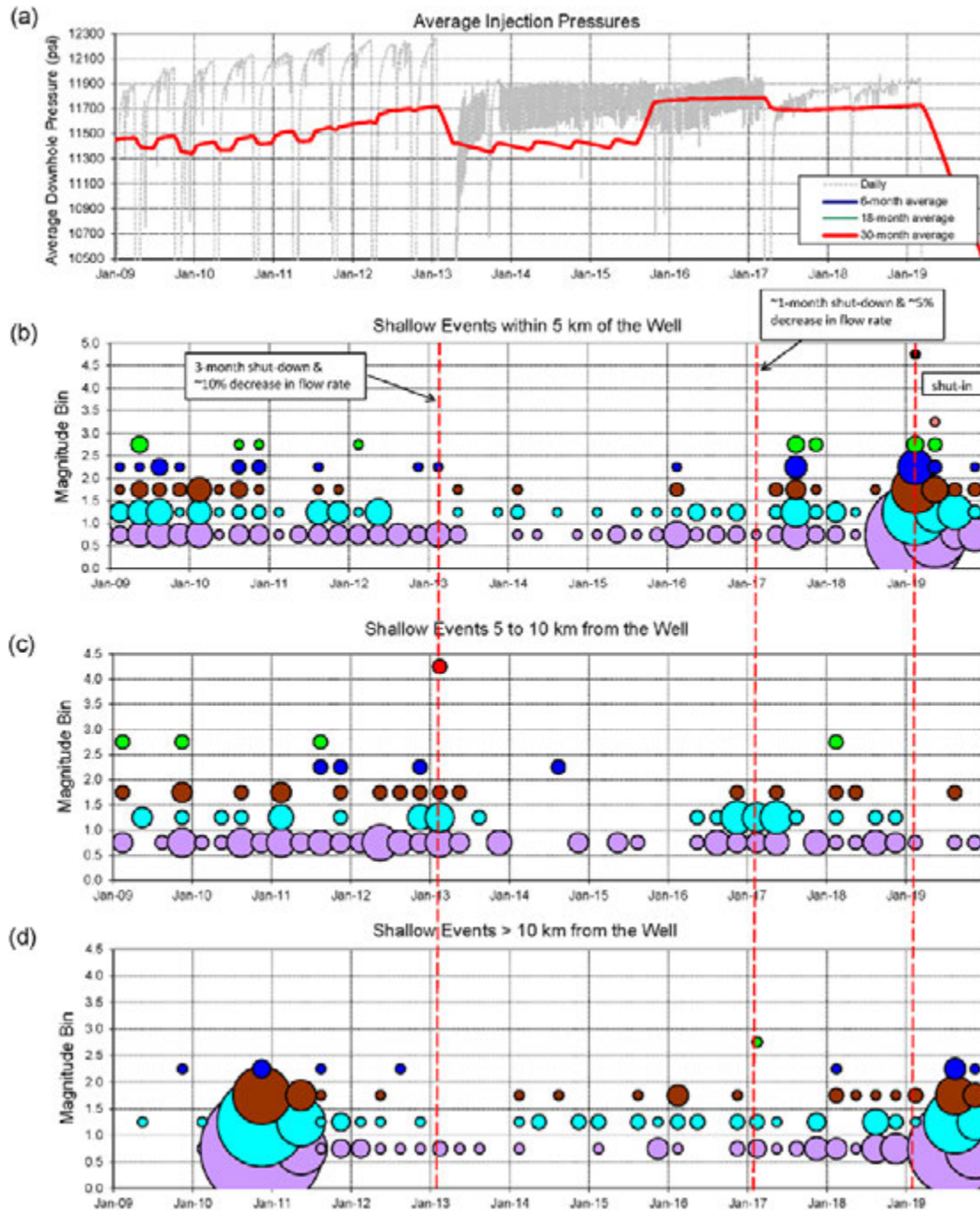


Figure IV-12: Same as Figure IV-11, but only showing data from 2010-2019.

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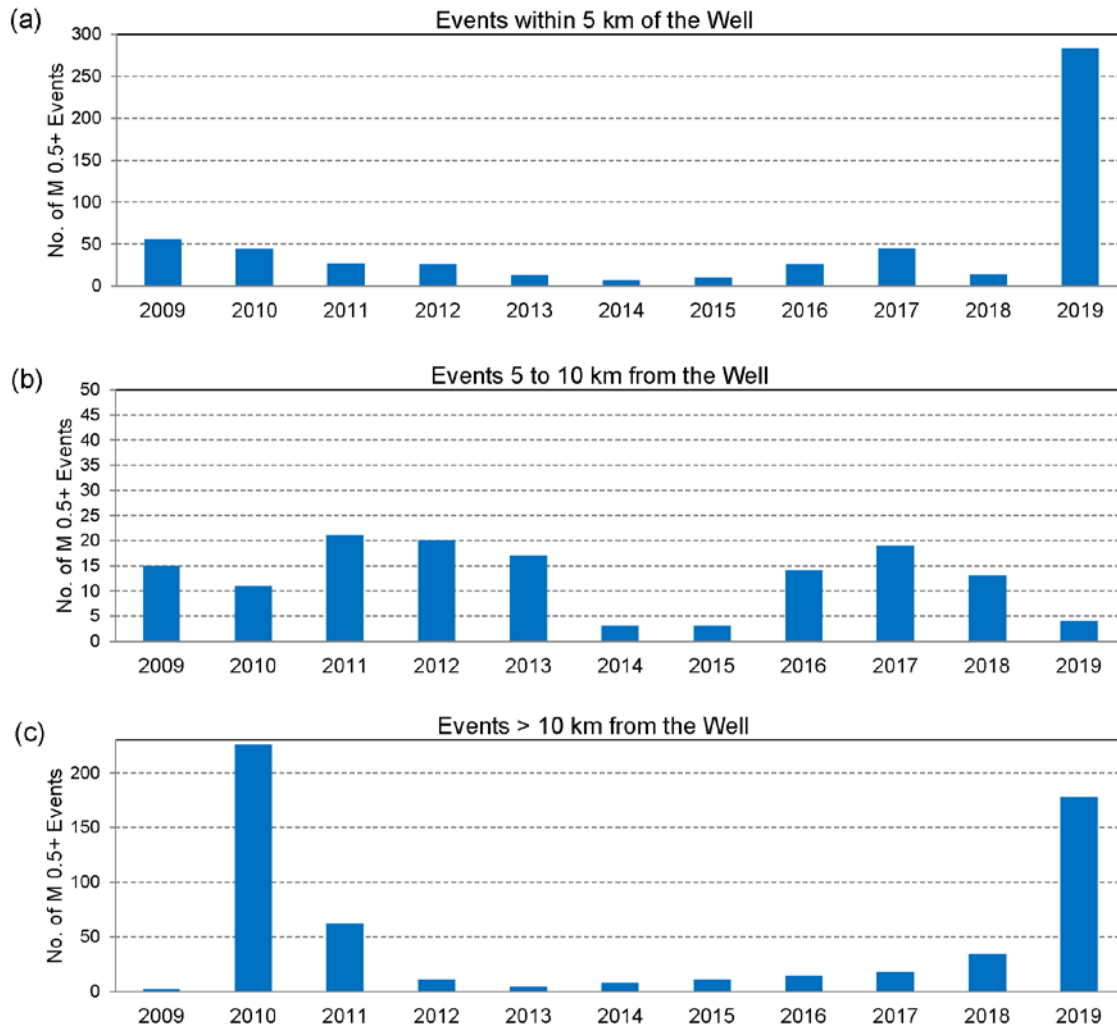


Figure IV-13: Annual numbers of earthquakes (depth ≤ 12 km) with $M_D \geq 0.5$: within 5 km of the injection well (a), 5 to 10 km from the well (b), and more than 10 km from the well (c). Data from 2009 to 2019 are shown.

V. Conclusions

The largest earthquake induced by PVU injection operations to date occurred on March 4th, 2019, 1.6 km southwest of the PVU injection well. As reported by the U.S. Geological Survey and University of Utah, the earthquake had a moment magnitude of M_w 4.5, considerably larger than the previous maximum magnitude PVU-induced earthquake of M_w 4.0 (in January 2013). More than 2000 aftershocks of the M_w 4.5 earthquake occurred through the end of 2019. The occurrence of these aftershocks temporarily increased near-well seismicity rates (rates within 5 km of the injection well) to their highest levels in 20 years. Aftershocks are expected to continue for several years, at gradually decreasing rates. Because the aftershocks are triggered by the redistribution of stress associated with the rupture of the fault plane during the M_w 4.5 earthquake, they are only indirectly related to PVU injection operations. Despite the large number of aftershocks, seismicity rates in other parts of the near-well region remained low in 2019.

Six aftershocks with duration magnitude $\geq M_D$ 2.5 occurred between March and June 2019. This magnitude threshold is significant because it is the approximate minimum magnitude for human detection of earthquakes in the Paradox Valley area. The largest aftershock had magnitude M_D 3.0 (M_w 2.5) and occurred on April 18th.

Seismicity rates at distances of 5 to 10 km from the PVU injection well decreased in 2019 compared to the previous year. The total number of events declined by 51%, while the number of events with magnitudes \geq the PVSN magnitude completeness threshold of M_D 0.5 decreased by 69%. In addition, the maximum earthquake magnitude in this distance range decreased from M_w 2.5 in 2018 to M_w 1.7 in 2019.

Seismicity rates in areas more than 10 km from the injection well increased sharply in 2019. Seven hundred and forty-one earthquakes interpreted as induced by the PVU injection well occurred more than 10 km from the well in 2019, compared to 131 such events the previous year. Ninety-eight percent of these earthquakes occurred in or near the northern end of Paradox Valley, where induced earthquakes have been observed since 2000. Most of these events occurred during a swarm of increased seismic activity in September and early October 2019. Similar swarms have been observed in the past. The maximum earthquake magnitude in areas more than 10 km from the well was M_D 2.4 in 2019, nearly the same as last year's value of M_D 2.3.

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The Paradox Valley Seismic Network performed exceptionally well during 2019. The uptime of the seismic network was virtually 100%, as non-essential updates of the data acquisition systems were postponed, to keep the network operating as continuously as possible while numerous aftershocks of M_W 4.5 earthquake were recorded. Uptimes for the individual telemetered high-gain seismic stations ranged from 98% to 100%, with 16 of the 20 stations having uptimes of 100%.

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Appendix A

2019 Site Visit Reports

Paradox Valley Seismic Network

Site Visit Report

Site Visit Number: PVSN-2019-1

Prepared by: Justin Schwarzer

Departure Date: 2/25/2019

Return Date: 2/28/2019

Personnel: Justin Schwarzer and Justin Ball

Tasks: At the Hopkins Field data communication center, the computer running the *Scream* data acquisition software was upgraded to 32 GB of RAM (from its previous 8 GB). In addition, the security light on the exterior front of the structure was replaced, and the generator was inspected. The generator was found to be in good repair and completed a self-test while personnel were on-site.

At strong motion site PVEF, a Reftek RT-130 data logger connected to a Silicon Audio 203V sensor on channels 1-3 and a Nanometrics Titan sensor on channels 4-6, along with a Guralp Minimus Digitizer connected to a Fortis Force Balance Accelerometer, were installed for side-by-side comparison. The install included a temporary radio antenna mount for a 12-element antenna, a GE MDS radio, and a Linksys switch for telemetry, as well as a BC-15 charge controller connected to existing AC and an 88 amp/hr Deka 8G27 battery for power. These systems are connected to the *Scream* and *RTPD Server* data acquisition system at the Hopkins Field Hub site over the PV04 radio hub subnet. The previously-installed K2 and FBA 23 and modem communication systems were removed.

All three strong motion sites were visited during this trip to determine the best location for possible enclosure upgrades and radio tower installations. Pictures were taken at each site for future discussion.

Various small components, omni-antennas, and tarps were placed into storage at the Naturita storage building.

Paradox Valley Seismic Network Site Visit Report

Site Visit Number: PVSN-2019-2

Prepared by: Justin Schwarzer

Departure Date: 4/29/2019

Return Date: 5/03/2019

Personnel: Justin Schwarzer, Justin Ball

Primary Purpose: To perform preventive maintenance at the telemetered broadband seismic stations, install new seismometers at two stations, and remove some Strong Motion next systems at PVE and install new systems.

Details:

New Guralp CMG-3ESP broadband seismometers were installed at stations PV12 and PV19. These seismometers have improved sensitivity and noise characteristics compared to the previously-installed Guralp CMG-40T seismometers. At each of these sites, the GPS antennas and DM24-BOBs were also replaced with upgraded units. These new components were required for compatibility with the new seismometers.

A previously removed 40T (PV02) was installed at PV14 as well as a new GPS antenna.

No routine preventive maintenance work was performed at the data communication center at Hopkin's Field as we could not turn off the radios this trip. The generator was found to have a defective sensor and will require professional maintenance. The 9V battery in the smoke detector was replaced.

At PVE the Reftek, Silicone Audio, and Titan sensor were removed. K2 and FBA 23 as well as modem communication systems were reinstalled. A Titan SMA was installed. Guralp system was left in place.

At PV01, a new radio to polyphaser jumper was installed, as well as an updated GPS antenna.

Work by Site:

Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
PV01	X		X	X		Replaced radio to polyphaser jumper. Replace GPS antenna with newest version.
PV12	X		X	X	X	Replaced seismometer, GPS antenna, DM24-BOB.
PV14	X		X	X	X	Replaced seismometer and GPS antenna.
PV19	X		X	X	X	Replaced seismometer, GPS antenna, DM24-BOB.

Abbreviations:

AP-1 – access point #1 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from individual stations PV01, PV07, and PV15

AP-2 – access point #2 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from radio repeater station PV02

AP-3 – access point #3 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from radio repeater stations PV04 and PV12

Chem rod – chemical ground rod that is part of the lightning protection grounding system at station PV02

DM24-BOB - seismic station electronics break-out-box located in enclosure; conditions power supply for the DM24 seismometer digitizer

GPS – refers to antenna that receives Global Positioning System satellite data to provide station timing

GPS-BOB - seismic station electronics break-out-box located in enclosure; serves as junction for dirty and clean power supplies and data communications

LVD - low-voltage disconnect

WAGO – refers to special tool needed for engaging (or disengaging) some electronics connections within station enclosure; manufactured by WAGO Corporation

Paradox Valley Seismic Network Site Visit Report

Site Visit Number: PVSN-2019-3

Prepared by: Glenda Besana-Ostman and Lisa Block

Departure Date: 7/09/2019

Return Date: 7/11/2019

Personnel: Glenda Besana-Ostman and Lisa Block

Purpose: To replace old spike-style Guralp GPS antennas due to a week number roll over (WNRO) notice. Reclamation received the WNRO notice from Guralp on April 8, 2019. The notice indicated that GPS antennas sold between 2003 and mid-2010 for use with seismometers with DM24 digitizers would stop providing accurate dates after July 28th, 2019. GPS antennas that are affected by the WNRO at seven PVSN seismic stations were replaced with new units during this site visit.

No standard equipment testing or preventive maintenance was done during this site visit because of the presence of numerous biting gnats. Installation of the new GPS antennas involved the use of coverall netting as safety gear to minimize the risk of being bitten by gnats. As a result, walking, climbing, and replacing the GPS antennas involved more precautions than normally needed for maintenance work. The GPS antenna at an eighth station affected by the WNRO issue, PV16, was not replaced due to the difficulty of using protective netting during the steep hike that would have been required.

Work by Site:

Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
PV03						Replaced GPS G10904 with GPS G32621
PV05						Replaced GPS G16300 with GPS G32632

Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
PV07						Replaced old GPS antenna without a serial number with GPS G32629. The GPS antenna bracket appears to be cracked and may need to be replaced during a future site visit.
PV13						Replaced GPS G10600 with GPS G32608
PV15						Replaced GPS G16286 with GPS G32641
PV21						Replaced GPS G11933 with GPS G32610
PV22						Replaced GPS G12029 with GPS G32255

Abbreviations: GPS – refers to antenna that receives Global Positioning System satellite data to provide station timing

Paradox Valley Seismic Network Site Visit Report

Site Visit Number: PVSN-2019-4

Prepared by: Lisa Block

Departure Date: 8/4/2019

Return Date: 8/9/2019

Personnel: Chris Wood and Lisa Block

Purpose: To perform remedial and preventive maintenance at the telemetered broadband seismic stations and the Hopkins Field data communication center.

Details: Seismic station PV17 was brought back online during this site visit, after its failed seismometer/digitizer unit was replaced. The GPS antenna at station PV16 was replaced because of the week number roll-over expiration date of its previous antenna. Other maintenance activities performed include replacing batteries and performing standard radio and antenna testing.

Work by Site:

Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
PV04	X	X	X	X		Replaced the omni antenna. Need to install a spline ball bracket and move the Yagi antenna to the top of the tower.
PV07	X		X	X		
PV12	X	X	X	X		Removed bad surge protection block in secondary enclosure.

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Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
PV16	X		X			Replaced GPS antenna S/N G10570 with GPS G32251 because of a week number roll-over expiration. Replaced the Yagi antenna because the previous one was an old model no longer in use at PVSN.
PV17	X	X	X	X	X	Replaced the seismometer (with integrated digitizer; S/N T4164/D0465) because the serial driver on the old unit failed. An old spare CMG-40T was installed (S/N: T4S51/A2289). Replaced the mushroom-style GPS antenna with a new spike-style antenna (GPS 32617) for compatibility with the newly-installed seismometer. Diagnostic testing suggests that the antenna cable is beginning to degrade; should test again during the next site visit.

Site	Preventive Maintenance					Comments
	Checked Power System	Replaced Batteries	Tested Antennas and cables	Tested Radio(s)	Inspected Vault	
Hopkins Field	X		X	X		There was a low coolant alarm on the generator, and the coolant pump appeared to be leaking. A service visit has been scheduled. The <i>Earthworm</i> server had an alarm sounding due to errors on one of its disk drives. We were unable to determine which disk was problematic, and the issue was temporarily resolved when the system was rebooted. The system should be checked during the next site visit. The batteries in the radio backup power supply are dead; this power supply should be replaced with a linear DC power supply.

Abbreviations:

AP-1 – access point #1 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from individual stations PV01, PV07, and PV15

AP-2 – access point #2 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from radio repeater station PV02

AP-3 – access point #3 antenna on the tower at the Hopkin’s Field data communications center; receives radio data communications from radio repeater stations PV04 and PV12

Chem rod – chemical ground rod that is part of the lightning protection grounding system at station PV02

DM24-BOB - seismic station electronics break-out-box located in enclosure; conditions power supply for the DM24 seismometer digitizer

GPS – refers to antenna that receives Global Positioning System satellite data to provide station timing

GPS-BOB - seismic station electronics break-out-box located in enclosure; serves as junction for dirty and clean power supplies and data communications

LVD - low-voltage disconnect

WAGO – refers to special tool needed for engaging (or disengaging) some electronics connections within station enclosure; manufactured by WAGO Corporation

Paradox Valley Seismograph Network (PVSN) Site Visit Summary PVSN-2019-5

Departure Date: 10/08/2019

Return Date: 10/13/2019

Prepared by: Glenda Besana Ostman

PURPOSE: To undertake annual maintenance work for 16 PVSN stations, replace batteries on 3 stations and drop-off external drive to Hopkins Field hub station.

WORK SUMMARY: Visited 16 stations to check state of health of the seismic station components as part of the annual maintenance check. All components were all in good condition. Replaced batteries on 3 stations. Old crimped jumper cables were replaced on 2 stations and four WAGO screw drivers provided on 4 stations inside spare parts bags. Inspection of the hub station at the Hopkins Field, fire alarm on-battery failed, retrieved; and installed an external drive on Scream server.

PERSONNEL:

- Glenda Besana-Ostman
- Justin Ball

ACTIVITIES:

- PV01, PV02, PV03, PV05, PV10, PV11, PV13, PV14, PV15, PV18, PV19, PV20, PV21, PV22, PV23, and Hopkins Field Hub site
 - Symptoms:
 - None on remote stations; 4-year old batteries need replacement; and alarm related to raid on the EW Linux server as well as the status of the generator at the Hopkins Field Hub site.
 - Diagnosis and Repair:
 - Undertake all power, battery, charge controller, fan, antenna and radio maintenance tests (PV01, PV02, PV03, PV05, PV10, PV11, PV13, PV14, PV15, PV18, PV19, PV20, PV21, PV22, and PV23).
 - Noted and replaced crimped jumper cables (PV19, PV22)
 - Replaced 4-year old batteries (PV02, PV10, PV14)
 - WAGO screw drivers now inside bag of spare parts (PV02, PV03, PV10, PV11)
 - Alarm related to the Linux EW server was inspected-None except for yellow caution light on the front display. However, fire alarm at the Hopkin Hub Site was blaring upon arrival. The backup battery or the alarm itself must have failed. Retrieved the alarm. Needed to be replaced. External drive was installed on the Dell Scream server. Generator was inspected- OK.

- Bear bites on flexible metallic protector cable were observed, taped over the damaged areas.
 - Photos/Station logs at the shared drive.
 - Used iPad App “Get Console” for all radio tests. This is a serial to lightning cable connection to connect/login into the GE radio.
- **Comments**
 - LVD circuits needs replacement (PV13, PV18), no spares to replace them.
 - Apparent disturbance (bear bites) observed (PV18, PV23)
 - Old enclosure moved and left open and has tire marks over cable line on PV05 and PV19, respectively.
 - **Work needed at site:**
 - None.

ACTION ITEMS:

- Buy Wago blocks for bladed fuse.
- Acquire new fire alarm to replace retrieved fire alarm at the Hopkins Field Hub Site.

COMMENTS:

- Dirt roads into remote stations would need maintenance as gullies become eroded further by water; and trees need trimming.
- Laptop computer lost power in the middle of a radio test, even it was fully charged upon initial use.
- Laptop computer shutdown before finishing SPM data download
- Get Console app manual on how to use it on the radios are now on the shared drive.

Appendix B

PVSN 2019 Local Earthquake Catalog

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Table B-1: Local Earthquakes Recorded by PVSN During 2019

Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
1/3/2019	9:03:59	38.2856	-108.8921	-2.0	3.5	0.1	1.2
1/8/2019	3:16:08	38.2843	-108.8987	-2.3	3.8	-0.5	1.4
1/9/2019	19:38:24	38.2860	-108.8995	-2.2	3.7	0.0	1.2
1/10/2019	15:42:41	38.2854	-108.8919	-2.0	3.5	-0.2	1.3
1/11/2019	12:56:49	38.2704	-108.8738	-1.5	3.0	-0.1	3.4
1/14/2019	11:34:23	38.2774	-108.8803	-5.1	6.6	0.1	2.5
1/14/2019	17:18:45	38.2776	-108.8804	-5.1	6.6	0.1	2.5
1/14/2019	18:33:21	38.2776	-108.8804	-5.1	6.6	0.6	2.5
1/14/2019	21:01:48	38.2779	-108.8806	-5.1	6.6	-0.4	2.4
1/15/2019	1:19:03	38.2775	-108.8803	-5.1	6.6	-0.3	2.5
1/15/2019	2:59:35	38.2773	-108.8801	-5.1	6.6	0.7	2.5
1/18/2019	21:04:20	38.3111	-108.7362	-7.7	9.3	1.4	14.0
1/20/2019	12:58:27	38.3153	-108.9707	-2.0	3.6	0.2	6.9
1/31/2019	4:43:47	38.2856	-108.9076	-2.1	3.6	0.9	1.6
2/5/2019	7:06:02	38.3332	-108.7543	-7.8	9.4	0.0	13.0
2/6/2019	7:57:28	38.2930	-108.9217	-2.5	4.0	-0.3	2.4
2/7/2019	16:12:13	38.2831	-108.8394	-2.1	3.6	0.4	5.1
2/18/2019	2:43:05	38.4051	-108.9037	-5.8	7.3	0.3	12.1
2/22/2019	18:59:37	38.2762	-108.8087	-2.8	4.3	-0.2	7.9
2/23/2019	10:45:21	38.2877	-108.8836	-3.8	5.3	1.1	1.4
2/24/2019	1:54:50	38.3222	-108.6927	-8.6	10.1	0.2	17.9
2/26/2019	2:20:39	38.4091	-108.9366	-4.1	5.6	1.6	13.0
3/3/2019	3:14:57	38.3115	-108.9653	-2.0	3.5	-0.5	6.4
3/3/2019	16:20:29	38.3115	-108.9657	-2.0	3.5	-0.3	6.4
3/4/2019	17:22:52	38.2828	-108.9012	-2.3	3.8	4.5 ⁵	1.6
3/4/2019	17:26:57	38.2825	-108.9052	-2.4	3.9	-1.0	1.8
3/4/2019	17:27:02	38.2819	-108.9076	-2.1	3.6	-0.5	2.0
3/4/2019	17:27:36	38.2827	-108.8948	-2.7	4.3	-0.8	1.5
3/4/2019	17:28:11	38.2819	-108.9073	-2.1	3.6	-0.5	1.9
3/4/2019	17:28:34	38.2806	-108.9056	-2.4	3.9	-0.5	2.0
3/4/2019	17:29:03	38.2820	-108.9060	-2.1	3.7	-1.0	1.9
3/4/2019	17:29:10	38.2821	-108.9040	-2.4	3.9	-0.2	1.8
3/4/2019	17:29:25	38.2853	-108.8974	-2.3	3.9	-0.9	1.3
3/4/2019	17:29:48	38.2823	-108.9085	-2.0	3.5	-0.9	2.0
3/4/2019	17:30:32	38.2822	-108.9068	-2.1	3.6	-1.2	1.9
3/4/2019	17:31:19	38.2820	-108.9040	-2.4	3.9	0.0	1.8
3/4/2019	17:32:05	38.2803	-108.8997	-2.8	4.4	-1.1	1.9
3/4/2019	17:32:17	38.2827	-108.9063	-2.0	3.5	-0.5	1.8
3/4/2019	17:33:02	38.2857	-108.8986	-2.2	3.7	-0.9	1.2
3/4/2019	17:33:16	38.2848	-108.8995	-2.1	3.6	-1.2	1.4

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	17:33:28	38.2852	-108.8975	-2.4	3.9	-0.9	1.3
3/4/2019	17:33:36	38.2818	-108.9048	-2.3	3.9	-0.9	1.8
3/4/2019	17:33:46	38.2812	-108.9049	-2.4	3.9	-0.7	1.9
3/4/2019	17:33:56	38.2844	-108.8942	-2.5	4.0	-0.6	1.3
3/4/2019	17:34:17	38.2840	-108.8954	-2.5	4.0	-0.1	1.4
3/4/2019	17:34:47	38.2815	-108.9045	-2.4	3.9	-0.6	1.9
3/4/2019	17:35:11	38.2846	-108.8956	-2.4	3.9	-1.1	1.3
3/4/2019	17:35:16	38.2821	-108.9077	-2.0	3.6	-1.3	2.0
3/4/2019	17:35:21	38.2823	-108.9047	-2.4	3.9	-1.2	1.8
3/4/2019	17:35:28	38.2848	-108.8960	-2.2	3.7	-1.5	1.3
3/4/2019	17:35:30	38.2821	-108.9079	-2.1	3.6	-1.5	2.0
3/4/2019	17:35:34	38.2820	-108.9081	-2.1	3.6	-0.5	2.0
3/4/2019	17:35:57	38.2830	-108.9041	-2.1	3.6	-0.6	1.7
3/4/2019	17:36:16	38.2856	-108.8983	-2.0	3.5	1.0	1.3
3/4/2019	17:36:47	38.2808	-108.8989	-2.9	4.4	-0.5	1.8
3/4/2019	17:37:07	38.2846	-108.8989	-2.3	3.9	-1.2	1.4
3/4/2019	17:37:21	38.2827	-108.9043	-2.5	4.0	-0.8	1.7
3/4/2019	17:37:30	38.2817	-108.9039	-2.6	4.1	-0.4	1.8
3/4/2019	17:37:38	38.2851	-108.8932	-2.4	3.9	-0.5	1.3
3/4/2019	17:37:51	38.2828	-108.9057	-2.0	3.5	-0.9	1.8
3/4/2019	17:37:59	38.2821	-108.9082	-2.0	3.5	0.2	2.0
3/4/2019	17:38:13	38.2831	-108.9012	-2.6	4.1	-0.4	1.6
3/4/2019	17:38:30	38.2847	-108.8971	-2.3	3.8	-0.8	1.3
3/4/2019	17:38:53	38.2819	-108.9039	-2.4	4.0	-0.5	1.8
3/4/2019	17:39:12	38.2845	-108.8950	-2.3	3.8	-1.0	1.3
3/4/2019	17:39:23	38.2821	-108.9077	-2.0	3.5	-0.9	2.0
3/4/2019	17:39:27	38.2809	-108.9078	-2.4	3.9	-1.2	2.1
3/4/2019	17:39:51	38.2861	-108.8953	-2.2	3.8	-1.0	1.2
3/4/2019	17:40:14	38.2838	-108.9029	-2.2	3.7	-0.6	1.6
3/4/2019	17:40:32	38.2819	-108.9072	-2.0	3.5	-0.9	1.9
3/4/2019	17:40:44	38.2827	-108.8969	-2.6	4.1	-1.4	1.5
3/4/2019	17:40:55	38.2917	-108.9139	-2.8	4.3	-0.9	1.7
3/4/2019	17:41:08	38.2830	-108.8913	-0.7	2.2	-1.1	1.5
3/4/2019	17:41:29	38.2833	-108.8994	-2.5	4.0	-0.4	1.5
3/4/2019	17:41:44	38.2829	-108.9075	-2.2	3.7	-0.8	1.9
3/4/2019	17:41:53	38.2819	-108.9085	-2.1	3.6	-1.5	2.0
3/4/2019	17:41:55	38.2807	-108.9077	-2.3	3.8	2.0	2.1
3/4/2019	17:42:54	38.2836	-108.8956	-2.5	4.1	-0.3	1.4
3/4/2019	17:43:37	38.2825	-108.9003	-2.7	4.2	-0.5	1.6
3/4/2019	17:43:28	38.2855	-108.8986	-2.3	3.9	-0.1	1.3
3/4/2019	17:43:33	38.2820	-108.9051	-2.4	4.0	-1.5	1.8
3/4/2019	17:44:31	38.2847	-108.8966	-2.3	3.9	0.3	1.3

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	17:44:54	38.2820	-108.9082	-2.0	3.5	-0.7	2.0
3/4/2019	17:45:17	38.2847	-108.9009	-2.3	3.8	0.9	1.4
3/4/2019	17:45:34	38.2813	-108.9053	-2.4	3.9	-0.8	1.9
3/4/2019	17:45:56	38.2847	-108.9019	-2.2	3.7	0.4	1.4
3/4/2019	17:46:39	38.2823	-108.9040	-2.4	3.9	0.0	1.8
3/4/2019	17:46:48	38.2821	-108.9072	-2.1	3.6	-1.3	1.9
3/4/2019	17:46:53	38.2939	-108.9140	-3.0	4.5	-0.2	1.7
3/4/2019	17:47:13	38.2940	-108.9140	-3.0	4.5	-0.8	1.7
3/4/2019	17:47:27	38.2845	-108.8956	-2.3	3.8	-0.6	1.3
3/4/2019	17:47:37	38.2820	-108.8972	-2.7	4.2	-0.4	1.6
3/4/2019	17:48:33	38.2846	-108.8956	-2.3	3.8	-1.4	1.3
3/4/2019	17:48:35	38.2939	-108.9139	-3.0	4.5	-1.2	1.7
3/4/2019	17:48:40	38.2858	-108.8968	-2.3	3.9	-1.0	1.2
3/4/2019	17:48:46	38.2823	-108.8907	-2.5	4.0	-1.0	1.6
3/4/2019	17:49:37	38.2799	-108.8992	-2.9	4.4	-1.5	1.9
3/4/2019	17:49:56	38.2824	-108.9072	-2.2	3.7	-0.4	1.9
3/4/2019	17:50:32	38.2831	-108.9068	-2.0	3.5	-0.6	1.8
3/4/2019	17:50:50	38.2838	-108.9010	-2.4	3.9	0.0	1.5
3/4/2019	17:51:21	38.2821	-108.9081	-2.0	3.5	0.0	2.0
3/4/2019	17:51:28	38.2829	-108.9042	-2.1	3.6	-0.2	1.7
3/4/2019	17:51:43	38.2840	-108.8918	-2.7	4.2	-0.7	1.4
3/4/2019	17:54:15	38.2826	-108.9035	-2.4	3.9	0.9	1.7
3/4/2019	17:55:59	38.2837	-108.8958	-2.4	4.0	-0.3	1.4
3/4/2019	17:55:45	38.2820	-108.9073	-2.0	3.6	-0.9	1.9
3/4/2019	17:57:00	38.2810	-108.9083	-2.3	3.8	1.9	2.1
3/4/2019	17:58:51	38.2851	-108.8928	-2.4	3.9	0.2	1.3
3/4/2019	18:00:22	38.2814	-108.9050	-2.4	3.9	-0.1	1.9
3/4/2019	18:01:49	38.2853	-108.8993	-2.0	3.6	-0.4	1.3
3/4/2019	18:02:13	38.2853	-108.8973	-2.3	3.8	1.0	1.3
3/4/2019	18:02:42	38.2875	-108.8951	-2.4	3.9	-0.9	1.0
3/4/2019	18:03:35	38.2849	-108.8989	-2.3	3.9	-0.7	1.3
3/4/2019	18:03:46	38.2878	-108.8902	-2.8	4.3	-1.1	1.1
3/4/2019	18:03:52	38.2808	-108.9075	-2.3	3.9	0.1	2.1
3/4/2019	18:04:16	38.2855	-108.8971	-2.2	3.7	-0.9	1.2
3/4/2019	18:04:23	38.2853	-108.8968	-2.3	3.8	0.6	1.3
3/4/2019	18:04:35	38.2847	-108.9011	-2.1	3.6	-0.3	1.4
3/4/2019	18:05:05	38.2821	-108.9079	-2.0	3.5	-0.4	2.0
3/4/2019	18:05:39	38.2846	-108.9012	-2.1	3.7	-0.3	1.4
3/4/2019	18:05:52	38.2829	-108.9073	-2.2	3.7	0.3	1.9
3/4/2019	18:06:15	38.2853	-108.8963	-2.4	3.9	0.0	1.3
3/4/2019	18:06:55	38.2823	-108.9064	-2.0	3.5	0.2	1.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	18:08:03	38.2823	-108.8999	-2.6	4.1	-1.2	1.6
3/4/2019	18:08:13	38.2940	-108.9114	-3.0	4.5	-0.5	1.5
3/4/2019	18:08:55	38.2819	-108.9075	-2.1	3.6	1.6	2.0
3/4/2019	18:09:24	38.2845	-108.8951	-2.3	3.8	-0.2	1.3
3/4/2019	18:09:45	38.2815	-108.9018	-2.7	4.2	-0.5	1.8
3/4/2019	18:10:06	38.2793	-108.9017	-2.9	4.5	-1.1	2.0
3/4/2019	18:10:12	38.2817	-108.9049	-2.3	3.9	-0.6	1.9
3/4/2019	18:10:35	38.2858	-108.8985	-2.1	3.6	-0.4	1.2
3/4/2019	18:10:40	38.2823	-108.8972	-2.7	4.2	-0.6	1.6
3/4/2019	18:10:49	38.2830	-108.9039	-2.4	3.9	-0.5	1.7
3/4/2019	18:11:11	38.2835	-108.8956	-2.6	4.1	-0.6	1.4
3/4/2019	18:11:56	38.2818	-108.9043	-2.3	3.9	0.0	1.8
3/4/2019	18:12:10	38.2820	-108.9038	-2.4	3.9	-0.9	1.8
3/4/2019	18:12:22	38.2840	-108.9003	-2.4	3.9	-0.9	1.5
3/4/2019	18:12:54	38.2819	-108.9053	-2.1	3.6	-0.1	1.9
3/4/2019	18:13:54	38.2861	-108.8966	-2.0	3.5	-1.1	1.2
3/4/2019	18:14:34	38.2799	-108.8991	-2.9	4.4	-0.2	1.9
3/4/2019	18:15:23	38.2823	-108.9076	-2.0	3.6	-0.3	1.9
3/4/2019	18:15:30	38.2822	-108.8997	-3.2	4.8	-1.6	1.6
3/4/2019	18:15:49	38.2818	-108.9065	-2.3	3.9	-0.3	1.9
3/4/2019	18:16:39	38.2802	-108.9061	-2.4	4.0	-0.2	2.1
3/4/2019	18:16:52	38.2823	-108.9057	-2.0	3.5	-1.1	1.8
3/4/2019	18:17:06	38.2840	-108.8990	-2.5	4.0	0.1	1.4
3/4/2019	18:17:48	38.2825	-108.9066	-2.0	3.6	-0.6	1.9
3/4/2019	18:18:11	38.2819	-108.9042	-2.3	3.9	-0.7	1.8
3/4/2019	18:18:25	38.2836	-108.9038	-2.0	3.6	-0.2	1.6
3/4/2019	18:18:35	38.2859	-108.8980	-2.2	3.7	-0.7	1.2
3/4/2019	18:19:04	38.2848	-108.8946	-2.3	3.9	-0.1	1.3
3/4/2019	18:19:29	38.2845	-108.8941	-2.5	4.0	1.7	1.3
3/4/2019	18:19:59	38.2813	-108.9071	-2.0	3.5	-0.6	2.0
3/4/2019	18:20:24	38.2851	-108.8964	-2.3	3.9	-0.8	1.3
3/4/2019	18:20:37	38.2853	-108.8964	-2.4	3.9	-0.6	1.3
3/4/2019	18:20:56	38.2827	-108.9033	-2.4	3.9	1.2	1.7
3/4/2019	18:21:55	38.2828	-108.9061	-2.0	3.5	0.3	1.8
3/4/2019	18:22:14	38.2825	-108.9038	-2.9	4.4	-0.8	1.7
3/4/2019	18:22:37	38.2822	-108.9072	-1.9	3.4	-1.2	1.9
3/4/2019	18:22:53	38.2817	-108.9087	-0.8	2.3	-0.9	2.0
3/4/2019	18:23:30	38.2817	-108.9077	-2.0	3.6	-1.3	2.0
3/4/2019	18:23:36	38.2818	-108.9056	-2.3	3.9	-0.6	1.9
3/4/2019	18:24:13	38.2828	-108.8945	-2.7	4.2	0.5	1.5
3/4/2019	18:25:24	38.2854	-108.8971	-2.2	3.7	-1.3	1.2
3/4/2019	18:25:28	38.2938	-108.9138	-3.0	4.5	-0.4	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	18:26:11	38.2841	-108.8918	-2.7	4.2	-0.7	1.4
3/4/2019	18:26:37	38.2842	-108.8918	-2.7	4.2	-1.2	1.4
3/4/2019	18:26:43	38.2840	-108.8987	-2.5	4.0	-0.7	1.4
3/4/2019	18:26:51	38.2854	-108.8971	-2.1	3.7	-0.7	1.3
3/4/2019	18:27:05	38.2851	-108.8932	-2.4	3.9	1.1	1.3
3/4/2019	18:27:33	38.2861	-108.8976	-2.4	3.9	-0.2	1.2
3/4/2019	18:28:23	38.2854	-108.8971	-2.1	3.7	-0.7	1.3
3/4/2019	18:28:28	38.2821	-108.9075	-2.0	3.5	-0.8	1.9
3/4/2019	18:28:47	38.2820	-108.9065	-2.3	3.9	0.9	1.9
3/4/2019	18:29:38	38.2835	-108.8998	-1.5	3.0	-0.8	1.5
3/4/2019	18:30:03	38.2799	-108.9025	-2.7	4.2	-0.8	2.0
3/4/2019	18:30:25	38.2861	-108.8977	-2.1	3.6	1.0	1.2
3/4/2019	18:32:01	38.2822	-108.9079	-2.0	3.5	-0.9	2.0
3/4/2019	18:32:15	38.2826	-108.9040	-2.4	3.9	-0.3	1.7
3/4/2019	18:32:54	38.2843	-108.9097	-1.5	3.0	-1.0	1.9
3/4/2019	18:33:49	38.2854	-108.8972	-2.1	3.7	0.6	1.2
3/4/2019	18:34:17	38.2828	-108.9056	-2.0	3.6	0.5	1.8
3/4/2019	18:35:39	38.2853	-108.9004	-2.2	3.7	-0.5	1.3
3/4/2019	18:35:53	38.2845	-108.8968	-2.3	3.8	-1.4	1.3
3/4/2019	18:35:57	38.2813	-108.9071	-2.0	3.5	-0.1	2.0
3/4/2019	18:36:47	38.2838	-108.9037	-2.1	3.7	-0.9	1.6
3/4/2019	18:36:55	38.2863	-108.8950	-2.2	3.7	-0.8	1.1
3/4/2019	18:37:30	38.2800	-108.9063	-2.3	3.9	-0.5	2.1
3/4/2019	18:37:46	38.2850	-108.9010	-2.7	4.2	-0.8	1.4
3/4/2019	18:38:11	38.2823	-108.9051	-2.1	3.6	-0.9	1.8
3/4/2019	18:38:19	38.2848	-108.9014	-2.3	3.8	-1.2	1.4
3/4/2019	18:39:27	38.2850	-108.9006	-2.2	3.8	-0.6	1.4
3/4/2019	18:39:43	38.2794	-108.9065	-2.6	4.2	-0.3	2.2
3/4/2019	18:39:58	38.2831	-108.9033	-2.3	3.8	-1.3	1.7
3/4/2019	18:40:44	38.2818	-108.9041	-2.4	3.9	0.3	1.8
3/4/2019	18:41:44	38.2796	-108.9076	-2.3	3.8	-0.4	2.2
3/4/2019	18:42:00	38.2854	-108.8972	-2.2	3.7	-0.9	1.2
3/4/2019	18:42:16	38.2843	-108.9057	-1.9	3.4	-1.1	1.6
3/4/2019	18:43:14	38.2861	-108.8945	-2.2	3.7	0.3	1.2
3/4/2019	18:48:08	38.2847	-108.8966	-2.3	3.8	-0.3	1.3
3/4/2019	18:48:34	38.2821	-108.9055	-2.3	3.9	0.3	1.8
3/4/2019	18:49:26	38.2853	-108.8972	-2.3	3.9	-0.8	1.3
3/4/2019	18:49:28	38.2851	-108.9009	-2.2	3.7	0.4	1.4
3/4/2019	18:51:48	38.2825	-108.9061	-2.0	3.6	-0.1	1.8
3/4/2019	18:52:27	38.2820	-108.9036	-2.4	3.9	-1.3	1.8
3/4/2019	18:52:33	38.2835	-108.8945	-2.7	4.2	-0.3	1.5

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	18:52:45	38.2770	-108.9244	-1.5	3.0	-0.4	3.4
3/4/2019	18:53:01	38.2811	-108.9066	-2.0	3.5	-0.8	2.0
3/4/2019	18:54:09	38.2827	-108.9061	-2.0	3.6	-1.1	1.8
3/4/2019	18:54:22	38.2843	-108.9011	-2.7	4.2	0.3	1.5
3/4/2019	18:58:09	38.2825	-108.9035	-2.4	3.9	0.4	1.7
3/4/2019	18:59:19	38.2860	-108.9040	-2.2	3.7	-1.2	1.4
3/4/2019	19:02:26	38.2818	-108.9034	-2.6	4.1	-0.8	1.8
3/4/2019	19:02:41	38.2820	-108.9041	-2.4	3.9	-0.5	1.8
3/4/2019	19:03:28	38.2808	-108.9057	-2.4	3.9	-0.4	2.0
3/4/2019	19:03:33	38.2827	-108.9063	-2.0	3.5	0.3	1.8
3/4/2019	19:04:52	38.2833	-108.8986	-2.5	4.1	-1.2	1.5
3/4/2019	19:05:00	38.2823	-108.9072	-2.2	3.7	2.0	1.9
3/4/2019	19:05:58	38.2828	-108.8972	-2.7	4.2	-0.5	1.5
3/4/2019	19:08:14	38.2823	-108.9041	-2.3	3.9	0.0	1.8
3/4/2019	19:08:22	38.2825	-108.9062	-2.0	3.5	0.6	1.8
3/4/2019	19:09:16	38.2821	-108.9040	-2.3	3.8	2.4	1.8
3/4/2019	19:11:07	38.2860	-108.8986	-2.0	3.5	-1.1	1.2
3/4/2019	19:12:07	38.2825	-108.9058	-2.1	3.6	-0.2	1.8
3/4/2019	19:13:51	38.2855	-108.8980	-2.3	3.9	2.0	1.3
3/4/2019	19:15:15	38.3145	-108.9078	1.6	0.0	-0.1	2.3
3/4/2019	19:16:41	38.2813	-108.9015	-2.7	4.2	-0.1	1.8
3/4/2019	19:17:43	38.2821	-108.9082	-1.9	3.5	0.2	2.0
3/4/2019	19:18:08	38.2821	-108.9039	-2.4	3.9	-0.1	1.8
3/4/2019	19:18:27	38.2860	-108.8933	-2.8	4.3	-0.4	1.2
3/4/2019	19:18:57	38.2821	-108.9079	-2.0	3.5	-0.5	2.0
3/4/2019	19:19:01	38.2820	-108.9043	-2.3	3.9	-0.3	1.8
3/4/2019	19:19:30	38.2798	-108.9067	-2.3	3.8	-0.6	2.1
3/4/2019	19:19:55	38.2824	-108.9060	-2.0	3.6	-0.2	1.8
3/4/2019	19:20:23	38.2830	-108.9039	-2.1	3.7	-0.4	1.7
3/4/2019	19:20:32	38.2856	-108.8986	-2.2	3.7	-0.5	1.3
3/4/2019	19:21:45	38.2821	-108.9043	-2.4	3.9	-0.8	1.8
3/4/2019	19:22:18	38.2856	-108.8990	-2.0	3.5	-0.3	1.3
3/4/2019	19:23:14	38.2858	-108.8973	-2.4	3.9	2.2	1.2
3/4/2019	19:24:12	38.2817	-108.9056	-2.4	3.9	-0.5	1.9
3/4/2019	19:27:27	38.2857	-108.8976	-2.4	3.9	-1.1	1.2
3/4/2019	19:32:00	38.2822	-108.9052	-2.1	3.6	-0.3	1.8
3/4/2019	19:32:20	38.2841	-108.8919	-2.7	4.2	-0.5	1.4
3/4/2019	19:34:31	38.2812	-108.9068	-2.0	3.6	0.0	2.0
3/4/2019	19:34:45	38.2829	-108.9042	-2.1	3.7	-1.1	1.7
3/4/2019	19:35:00	38.2819	-108.9086	-2.0	3.5	-0.5	2.0
3/4/2019	19:35:20	38.2794	-108.9077	-2.3	3.8	-0.9	2.2
3/4/2019	19:36:39	38.2821	-108.9051	-2.1	3.6	-0.6	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	19:37:27	38.2824	-108.9059	-2.0	3.5	-0.8	1.8
3/4/2019	19:37:34	38.2858	-108.8979	-2.0	3.5	-0.9	1.2
3/4/2019	19:37:54	38.2821	-108.9077	-2.0	3.5	-0.5	1.9
3/4/2019	19:38:17	38.2817	-108.9082	-2.0	3.6	-0.9	2.0
3/4/2019	19:38:46	38.2861	-108.8977	-2.1	3.7	0.0	1.2
3/4/2019	19:43:56	38.2822	-108.9055	-2.1	3.6	-1.1	1.8
3/4/2019	19:45:16	38.2802	-108.8995	-2.9	4.4	1.2	1.9
3/4/2019	19:45:48	38.2836	-108.8936	-2.7	4.2	-0.7	1.4
3/4/2019	19:47:03	38.2820	-108.9060	-2.1	3.7	0.1	1.9
3/4/2019	19:47:58	38.2821	-108.9072	-2.0	3.6	-0.2	1.9
3/4/2019	19:51:07	38.2855	-108.8982	-2.0	3.5	-0.1	1.3
3/4/2019	19:51:15	38.2820	-108.9037	-2.4	3.9	-0.5	1.8
3/4/2019	19:51:34	38.2824	-108.9070	-2.3	3.8	-0.7	1.9
3/4/2019	19:53:13	38.2810	-108.9065	-2.3	3.8	-0.6	2.0
3/4/2019	19:55:27	38.2844	-108.9000	-2.4	3.9	-0.5	1.4
3/4/2019	19:56:21	38.2854	-108.8973	-2.1	3.7	-0.2	1.3
3/4/2019	19:57:10	38.2859	-108.8968	-2.0	3.5	-0.5	1.2
3/4/2019	19:58:40	38.2825	-108.8970	-2.6	4.2	0.6	1.6
3/4/2019	19:58:47	38.2787	-108.9059	-2.6	4.1	-0.3	2.2
3/4/2019	19:59:43	38.2860	-108.8967	-2.0	3.5	0.2	1.2
3/4/2019	20:00:57	38.2852	-108.9000	-2.0	3.5	-0.9	1.3
3/4/2019	20:03:41	38.2820	-108.9072	-2.0	3.5	-0.9	1.9
3/4/2019	20:05:02	38.2838	-108.8998	-2.4	3.9	-0.8	1.5
3/4/2019	20:06:39	38.2828	-108.9027	-2.5	4.0	-0.4	1.7
3/4/2019	20:07:20	38.2826	-108.9026	-2.4	4.0	0.4	1.7
3/4/2019	20:10:01	38.2809	-108.9074	-2.4	3.9	-0.4	2.0
3/4/2019	20:11:44	38.2847	-108.8967	-2.3	3.8	0.1	1.3
3/4/2019	20:12:33	38.2829	-108.9054	-2.0	3.6	0.0	1.8
3/4/2019	20:12:47	38.2817	-108.9049	-2.3	3.9	-0.6	1.9
3/4/2019	20:12:57	38.2829	-108.9054	-2.0	3.6	-1.2	1.8
3/4/2019	20:16:17	38.2824	-108.9062	-2.0	3.6	-1.0	1.8
3/4/2019	20:16:28	38.2854	-108.8992	-2.0	3.5	-0.6	1.3
3/4/2019	20:17:11	38.2862	-108.8912	-1.7	3.2	-0.8	1.2
3/4/2019	20:17:23	38.2817	-108.9063	-2.2	3.7	-0.8	1.9
3/4/2019	20:22:43	38.2828	-108.9063	-2.0	3.5	-0.9	1.8
3/4/2019	20:22:48	38.2827	-108.9061	-2.1	3.6	-0.9	1.8
3/4/2019	20:23:15	38.2835	-108.9032	-2.1	3.6	-0.6	1.6
3/4/2019	20:23:42	38.2829	-108.9041	-2.1	3.6	0.1	1.7
3/4/2019	20:26:15	38.2804	-108.8983	-2.9	4.4	0.0	1.8
3/4/2019	20:26:24	38.2823	-108.9069	-2.1	3.6	-1.1	1.9
3/4/2019	20:28:56	38.2938	-108.9138	-3.0	4.6	-0.4	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	20:29:15	38.2864	-108.8976	-2.2	3.7	-0.9	1.1
3/4/2019	20:29:46	38.2938	-108.9137	-3.0	4.5	-0.1	1.7
3/4/2019	20:32:11	38.2828	-108.9057	-2.0	3.6	-1.0	1.8
3/4/2019	20:32:17	38.2938	-108.9136	-3.0	4.5	0.3	1.7
3/4/2019	20:32:36	38.2938	-108.9135	-3.0	4.5	-0.5	1.7
3/4/2019	20:32:50	38.2936	-108.9133	-3.0	4.5	-0.9	1.6
3/4/2019	20:32:56	38.2937	-108.9135	-3.0	4.5	-0.1	1.6
3/4/2019	20:33:41	38.2937	-108.9134	-3.0	4.5	0.5	1.6
3/4/2019	20:34:47	38.2800	-108.8995	-2.9	4.4	-0.9	1.9
3/4/2019	20:34:58	38.2848	-108.8942	-2.4	3.9	-0.7	1.3
3/4/2019	20:36:09	38.2812	-108.9057	-2.1	3.6	-1.1	1.9
3/4/2019	20:36:18	38.2821	-108.9040	-2.6	4.1	-1.0	1.8
3/4/2019	20:36:23	38.2936	-108.9134	-3.0	4.5	-0.1	1.6
3/4/2019	20:38:36	38.2821	-108.9082	-1.9	3.4	-0.8	2.0
3/4/2019	20:38:39	38.2821	-108.9083	-1.9	3.4	-0.6	2.0
3/4/2019	20:42:28	38.2827	-108.9052	-2.3	3.8	-0.5	1.8
3/4/2019	20:43:09	38.2814	-108.9072	-2.0	3.6	0.1	2.0
3/4/2019	20:43:54	38.2821	-108.9074	-2.0	3.5	0.0	1.9
3/4/2019	20:45:36	38.2803	-108.9061	-2.4	3.9	0.4	2.0
3/4/2019	20:46:01	38.2821	-108.9051	-2.1	3.6	-1.1	1.8
3/4/2019	20:48:05	38.2849	-108.8978	-2.3	3.8	0.0	1.3
3/4/2019	20:51:04	38.2822	-108.9054	-2.1	3.6	-0.5	1.8
3/4/2019	20:51:18	38.2810	-108.9068	-2.0	3.5	-1.1	2.0
3/4/2019	20:53:04	38.2829	-108.9054	-2.0	3.6	-0.4	1.8
3/4/2019	20:53:33	38.2839	-108.8990	-2.5	4.0	-0.2	1.5
3/4/2019	20:56:11	38.2836	-108.8997	-2.5	4.1	-0.8	1.5
3/4/2019	20:58:15	38.2852	-108.8973	-2.3	3.9	-0.1	1.3
3/4/2019	20:59:21	38.2832	-108.9044	-2.1	3.6	-0.6	1.7
3/4/2019	21:00:36	38.2817	-108.9042	-2.3	3.9	0.4	1.8
3/4/2019	21:00:40	38.2792	-108.8993	-2.5	4.0	-0.9	2.0
3/4/2019	21:02:23	38.2836	-108.8930	-2.7	4.3	-0.5	1.4
3/4/2019	21:04:09	38.2820	-108.9084	-2.1	3.7	-0.5	2.0
3/4/2019	21:04:25	38.2801	-108.8997	-2.8	4.4	-0.8	1.9
3/4/2019	21:16:48	38.2823	-108.9056	-2.0	3.6	-0.5	1.8
3/4/2019	21:17:20	38.2810	-108.9050	-2.8	4.3	-2.0	1.9
3/4/2019	21:17:23	38.2825	-108.9025	-2.5	4.0	-0.1	1.7
3/4/2019	21:21:10	38.2818	-108.9049	-2.4	3.9	-0.2	1.8
3/4/2019	21:21:54	38.2820	-108.9072	-2.0	3.6	-0.6	1.9
3/4/2019	21:22:05	38.2839	-108.9031	-2.1	3.6	-0.7	1.6
3/4/2019	21:22:21	38.2828	-108.9057	-2.0	3.6	1.1	1.8
3/4/2019	21:24:41	38.2815	-108.9005	-2.8	4.3	-0.5	1.7
3/4/2019	21:25:09	38.2812	-108.9014	-2.7	4.2	-0.1	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	21:25:42	38.2822	-108.9042	-2.4	3.9	0.0	1.8
3/4/2019	21:32:33	38.2828	-108.9047	-1.9	3.4	-0.7	1.7
3/4/2019	21:33:27	38.2852	-108.8994	-2.2	3.7	-0.5	1.3
3/4/2019	21:33:42	38.2825	-108.9058	-1.7	3.2	-1.0	1.8
3/4/2019	21:36:16	38.2820	-108.9084	-2.0	3.5	-0.7	2.0
3/4/2019	21:38:23	38.2823	-108.9057	-2.4	3.9	-0.4	1.8
3/4/2019	21:39:40	38.2822	-108.9051	-2.1	3.6	0.4	1.8
3/4/2019	21:46:35	38.2829	-108.9038	-2.4	3.9	-0.2	1.7
3/4/2019	21:47:48	38.2840	-108.8918	-2.7	4.2	-1.4	1.4
3/4/2019	21:49:34	38.2848	-108.8983	-2.3	3.8	0.8	1.3
3/4/2019	21:53:31	38.2806	-108.9057	-2.4	3.9	-0.3	2.0
3/4/2019	21:54:36	38.2821	-108.9045	-2.3	3.9	-1.3	1.8
3/4/2019	21:56:42	38.2841	-108.8917	-2.7	4.2	-0.4	1.4
3/4/2019	21:57:12	38.2815	-108.9057	-2.4	3.9	-0.5	1.9
3/4/2019	21:57:40	38.2822	-108.9071	-2.1	3.6	-0.5	1.9
3/4/2019	22:03:49	38.2863	-108.8966	-2.1	3.6	-0.4	1.2
3/4/2019	22:06:38	38.2850	-108.8989	-2.3	3.8	-0.8	1.3
3/4/2019	22:08:39	38.2852	-108.8947	-1.6	3.1	-1.1	1.3
3/4/2019	22:09:09	38.2821	-108.9076	-2.0	3.6	-1.6	1.9
3/4/2019	22:09:13	38.2821	-108.9077	-2.0	3.6	-0.4	2.0
3/4/2019	22:09:38	38.2818	-108.9048	-2.1	3.6	-0.7	1.8
3/4/2019	22:09:59	38.2785	-108.9077	-2.5	4.0	-0.5	2.3
3/4/2019	22:10:30	38.2850	-108.9006	-2.4	3.9	0.2	1.4
3/4/2019	22:11:07	38.2825	-108.9012	-2.2	3.8	-1.1	1.7
3/4/2019	22:11:30	38.2819	-108.8958	-2.8	4.4	-0.1	1.6
3/4/2019	22:15:03	38.2854	-108.8972	-2.2	3.7	-0.5	1.3
3/4/2019	22:15:24	38.2823	-108.9063	-2.1	3.6	-0.3	1.9
3/4/2019	22:16:37	38.2855	-108.8921	-2.2	3.7	-0.2	1.3
3/4/2019	22:21:43	38.2806	-108.9057	-2.3	3.8	-0.7	2.0
3/4/2019	22:28:23	38.2820	-108.9046	-2.1	3.6	-0.9	1.8
3/4/2019	22:28:55	38.2847	-108.8989	-2.3	3.8	-0.7	1.4
3/4/2019	22:29:36	38.2834	-108.8981	-2.4	4.0	-1.2	1.5
3/4/2019	22:32:18	38.2854	-108.8974	-2.1	3.7	0.2	1.3
3/4/2019	22:41:29	38.2842	-108.8919	-2.7	4.2	-0.5	1.4
3/4/2019	22:43:30	38.2791	-108.9076	-2.3	3.8	-1.0	2.2
3/4/2019	22:43:50	38.2801	-108.8990	-2.9	4.4	-0.9	1.9
3/4/2019	22:44:04	38.2805	-108.9086	-2.0	3.5	-1.2	2.1
3/4/2019	22:45:52	38.2823	-108.9058	-2.1	3.6	-1.1	1.8
3/4/2019	22:46:24	38.2822	-108.9052	-2.0	3.6	-0.6	1.8
3/4/2019	23:02:10	38.2820	-108.9036	-2.4	3.9	-0.3	1.8
3/4/2019	23:02:29	38.2860	-108.8976	-2.4	3.9	-0.9	1.2

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/4/2019	23:04:08	38.2824	-108.9041	-2.3	3.9	0.6	1.8
3/4/2019	23:07:08	38.2829	-108.9007	-2.6	4.1	1.2	1.6
3/4/2019	23:08:56	38.2825	-108.9060	-2.0	3.5	1.3	1.8
3/4/2019	23:14:23	38.2848	-108.8949	-2.3	3.9	-0.2	1.3
3/4/2019	23:14:36	38.2855	-108.8974	-2.2	3.7	-1.1	1.2
3/4/2019	23:23:29	38.2815	-108.9073	-2.0	3.6	0.3	2.0
3/4/2019	23:26:08	38.2819	-108.9055	-2.4	3.9	0.3	1.9
3/4/2019	23:28:21	38.2817	-108.9060	-2.4	3.9	-0.9	1.9
3/4/2019	23:29:29	38.2808	-108.9060	-2.0	3.5	-0.8	2.0
3/4/2019	23:35:13	38.2849	-108.8978	-2.3	3.8	-0.8	1.3
3/4/2019	23:35:37	38.2813	-108.9073	-2.1	3.6	-1.0	2.0
3/4/2019	23:35:59	38.2830	-108.9037	-2.3	3.8	-0.1	1.7
3/4/2019	23:36:23	38.2835	-108.9008	-2.0	3.5	-1.2	1.5
3/4/2019	23:40:07	38.2825	-108.9035	-2.4	3.9	-0.4	1.7
3/4/2019	23:42:58	38.2860	-108.8984	-2.0	3.5	0.1	1.2
3/4/2019	23:44:53	38.2827	-108.9030	-2.3	3.8	-0.1	1.7
3/4/2019	23:45:51	38.2830	-108.9052	-2.0	3.5	-0.1	1.8
3/4/2019	23:51:13	38.2832	-108.9043	-2.1	3.6	0.1	1.7
3/4/2019	23:50:54	38.2823	-108.9072	-2.0	3.5	-1.4	1.9
3/4/2019	23:55:55	38.2802	-108.8994	-2.9	4.4	-0.4	1.9
3/4/2019	23:59:43	38.2843	-108.9000	-2.3	3.9	-0.7	1.4
3/5/2019	0:00:26	38.2853	-108.8994	-2.0	3.5	-0.3	1.3
3/5/2019	0:02:47	38.2821	-108.9083	-2.0	3.5	-0.2	2.0
3/5/2019	0:04:49	38.2798	-108.9100	-1.4	2.9	-1.5	2.3
3/5/2019	0:05:54	38.2823	-108.9076	-2.1	3.7	1.0	1.9
3/5/2019	0:07:59	38.2853	-108.9003	-2.0	3.5	0.1	1.3
3/5/2019	0:09:26	38.2851	-108.8970	-2.3	3.9	1.3	1.3
3/5/2019	0:12:10	38.2858	-108.8972	-2.0	3.5	-0.2	1.2
3/5/2019	0:14:55	38.2819	-108.9071	-2.0	3.5	-1.3	1.9
3/5/2019	0:15:00	38.2829	-108.9033	-2.4	3.9	-0.8	1.7
3/5/2019	0:19:09	38.2953	-108.9151	-2.9	4.5	-0.4	1.8
3/5/2019	0:20:52	38.2843	-108.9015	-2.4	3.9	-0.8	1.5
3/5/2019	0:21:05	38.2855	-108.8998	-2.4	3.9	-0.7	1.3
3/5/2019	0:24:07	38.2821	-108.9048	-2.1	3.6	-0.3	1.8
3/5/2019	0:26:41	38.2821	-108.9070	-2.1	3.6	-0.7	1.9
3/5/2019	0:27:01	38.2821	-108.9046	-2.3	3.8	-0.1	1.8
3/5/2019	0:28:32	38.2826	-108.9056	-2.4	3.9	-1.1	1.8
3/5/2019	0:45:05	38.2851	-108.8929	-2.4	3.9	0.6	1.3
3/5/2019	0:45:35	38.2829	-108.9033	-2.3	3.9	-0.9	1.7
3/5/2019	0:54:21	38.2820	-108.9045	-2.1	3.6	-0.8	1.8
3/5/2019	0:58:54	38.2829	-108.9043	-2.1	3.6	-0.5	1.7
3/5/2019	0:59:03	38.2821	-108.9040	-2.4	3.9	-0.2	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	1:00:00	38.2859	-108.8983	-2.0	3.5	-1.3	1.2
3/5/2019	1:02:37	38.2858	-108.8992	-2.2	3.7	-0.2	1.2
3/5/2019	1:05:01	38.2858	-108.8989	-2.0	3.5	-0.3	1.2
3/5/2019	1:14:06	38.2855	-108.8931	-2.1	3.6	0.4	1.2
3/5/2019	1:29:07	38.2799	-108.9076	-2.3	3.9	1.5	2.2
3/5/2019	1:34:50	38.2823	-108.9041	-2.4	3.9	-0.3	1.8
3/5/2019	1:37:50	38.2828	-108.9032	-2.4	3.9	0.5	1.7
3/5/2019	1:40:11	38.2825	-108.9079	-2.0	3.5	-0.7	1.9
3/5/2019	1:43:25	38.2830	-108.9038	-2.4	3.9	0.0	1.7
3/5/2019	1:52:01	38.2838	-108.9024	-2.2	3.7	-0.2	1.6
3/5/2019	2:10:27	38.2820	-108.9081	-2.1	3.6	-0.8	2.0
3/5/2019	2:25:41	38.2852	-108.9003	-2.4	3.9	-0.8	1.3
3/5/2019	2:32:19	38.2823	-108.9056	-2.0	3.6	-0.1	1.8
3/5/2019	2:33:54	38.2821	-108.9047	-2.1	3.6	-0.6	1.8
3/5/2019	2:37:52	38.2839	-108.9024	-2.1	3.6	0.1	1.5
3/5/2019	2:41:15	38.2796	-108.9076	-2.3	3.8	-0.6	2.2
3/5/2019	2:44:02	38.2824	-108.9061	-2.0	3.6	0.1	1.8
3/5/2019	2:44:38	38.2805	-108.8956	-3.0	4.6	1.5	1.8
3/5/2019	2:45:58	38.2826	-108.9061	-2.4	3.9	-0.6	1.8
3/5/2019	2:53:24	38.2940	-108.9142	-3.0	4.5	-0.5	1.7
3/5/2019	2:58:32	38.2813	-108.9070	-2.0	3.6	0.0	2.0
3/5/2019	3:05:31	38.2810	-108.9064	-2.1	3.6	-0.6	2.0
3/5/2019	3:06:30	38.2804	-108.9090	-1.9	3.5	-0.7	2.2
3/5/2019	3:07:57	38.2771	-108.9235	-1.4	3.0	0.6	3.3
3/5/2019	3:08:24	38.2825	-108.9078	-2.0	3.5	-0.9	1.9
3/5/2019	3:15:35	38.2805	-108.9007	-2.8	4.3	0.0	1.9
3/5/2019	3:16:13	38.2814	-108.9071	-2.0	3.5	-0.1	2.0
3/5/2019	3:16:46	38.2819	-108.9070	-2.0	3.6	-1.1	1.9
3/5/2019	3:17:31	38.2850	-108.9085	-2.4	3.9	-1.6	1.7
3/5/2019	3:18:22	38.2814	-108.9081	-2.0	3.5	-1.3	2.0
3/5/2019	3:18:46	38.2821	-108.9073	-2.1	3.6	-1.2	1.9
3/5/2019	3:19:31	38.2830	-108.9052	-2.0	3.6	0.0	1.8
3/5/2019	3:23:23	38.2820	-108.9084	-2.0	3.5	0.3	2.0
3/5/2019	3:26:21	38.2838	-108.8956	-2.5	4.1	0.7	1.4
3/5/2019	3:27:15	38.2822	-108.8967	-2.7	4.2	0.0	1.6
3/5/2019	3:35:42	38.2839	-108.8941	-2.7	4.2	-0.9	1.4
3/5/2019	3:39:55	38.2821	-108.9047	-2.1	3.6	-0.7	1.8
3/5/2019	3:40:10	38.2803	-108.9098	-1.9	3.4	-0.9	2.2
3/5/2019	3:46:19	38.2828	-108.8974	-2.6	4.1	-0.5	1.5
3/5/2019	4:04:28	38.2943	-108.9108	-3.0	4.5	-0.4	1.4
3/5/2019	4:07:23	38.2828	-108.9063	-2.0	3.5	0.5	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	4:07:50	38.2825	-108.9062	-2.0	3.5	0.3	1.8
3/5/2019	4:09:11	38.2828	-108.9064	-2.0	3.5	-0.2	1.8
3/5/2019	4:09:34	38.2825	-108.9064	-2.0	3.5	-0.3	1.8
3/5/2019	4:10:52	38.2821	-108.9081	-2.0	3.5	-0.7	2.0
3/5/2019	4:11:00	38.2826	-108.9064	-2.0	3.5	-0.2	1.8
3/5/2019	4:11:09	38.2826	-108.9065	-2.0	3.5	-0.7	1.9
3/5/2019	4:12:13	38.2825	-108.9063	-2.1	3.6	-0.7	1.8
3/5/2019	4:17:52	38.2822	-108.9053	-2.0	3.6	-0.1	1.8
3/5/2019	4:33:14	38.2790	-108.9050	-2.7	4.3	0.4	2.1
3/5/2019	4:34:02	38.2839	-108.8986	-2.4	3.9	-0.7	1.4
3/5/2019	4:35:05	38.2827	-108.9063	-2.0	3.5	1.2	1.8
3/5/2019	4:46:20	38.2784	-108.9022	-2.8	4.3	0.5	2.1
3/5/2019	4:48:40	38.2820	-108.9046	-2.1	3.6	-0.5	1.8
3/5/2019	4:52:47	38.2820	-108.9048	-2.3	3.8	0.2	1.8
3/5/2019	4:55:25	38.2822	-108.9042	-2.3	3.8	-0.5	1.8
3/5/2019	5:02:38	38.2828	-108.9057	-2.3	3.9	-0.7	1.8
3/5/2019	5:02:49	38.2839	-108.8978	-3.3	4.9	-0.9	1.4
3/5/2019	5:04:06	38.2827	-108.9031	-2.4	3.9	-1.0	1.7
3/5/2019	5:18:11	38.2819	-108.9043	-2.3	3.8	1.6	1.8
3/5/2019	5:24:04	38.2823	-108.9069	-2.1	3.6	0.7	1.9
3/5/2019	5:24:35	38.2825	-108.9077	-2.0	3.5	-0.9	1.9
3/5/2019	5:26:28	38.2843	-108.9104	-1.7	3.2	-0.8	1.9
3/5/2019	5:27:54	38.2820	-108.9046	-2.1	3.6	-0.2	1.8
3/5/2019	5:42:06	38.2841	-108.9025	-2.2	3.7	0.0	1.5
3/5/2019	5:42:39	38.2809	-108.9077	-2.3	3.8	-0.5	2.1
3/5/2019	5:43:01	38.2845	-108.8964	-2.3	3.9	-0.8	1.3
3/5/2019	5:44:16	38.2824	-108.9067	-2.3	3.9	-0.1	1.9
3/5/2019	5:44:33	38.2826	-108.9075	-2.1	3.6	-0.8	1.9
3/5/2019	5:44:57	38.2822	-108.9041	-2.4	3.9	-0.5	1.8
3/5/2019	5:47:32	38.2819	-108.9042	-2.3	3.9	0.0	1.8
3/5/2019	5:47:55	38.2826	-108.9052	-2.4	3.9	-0.8	1.8
3/5/2019	5:50:06	38.2846	-108.8996	-2.3	3.9	0.2	1.4
3/5/2019	5:52:18	38.2952	-108.9159	-2.9	4.4	-0.7	1.8
3/5/2019	5:57:27	38.2820	-108.9056	-2.2	3.7	-0.6	1.9
3/5/2019	5:59:23	38.2820	-108.9060	-2.1	3.6	-0.7	1.9
3/5/2019	5:59:45	38.2802	-108.8988	-2.8	4.3	-1.2	1.8
3/5/2019	6:00:48	38.2825	-108.9064	-2.0	3.6	-1.0	1.9
3/5/2019	6:03:51	38.2832	-108.9042	-2.1	3.6	-0.9	1.7
3/5/2019	6:08:27	38.2820	-108.9082	-1.9	3.4	-0.7	2.0
3/5/2019	6:11:17	38.2850	-108.8963	-2.3	3.8	-0.4	1.3
3/5/2019	6:11:48	38.2818	-108.9047	-2.4	4.0	-0.4	1.8
3/5/2019	6:12:30	38.2851	-108.8961	-2.3	3.8	-0.6	1.3

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	6:12:42	38.2823	-108.9067	-2.3	3.8	-0.3	1.9
3/5/2019	6:34:30	38.2812	-108.8998	-2.8	4.3	1.8	1.8
3/5/2019	6:41:39	38.2811	-108.9073	-2.3	3.8	-0.7	2.0
3/5/2019	6:45:24	38.2810	-108.9101	-1.9	3.4	0.4	2.2
3/5/2019	6:45:49	38.2834	-108.8997	-2.5	4.0	-1.0	1.5
3/5/2019	6:46:46	38.2822	-108.9052	-2.1	3.6	-0.2	1.8
3/5/2019	6:49:10	38.2842	-108.8918	-2.7	4.2	-0.1	1.4
3/5/2019	6:49:24	38.2803	-108.9099	-1.9	3.4	-1.0	2.2
3/5/2019	6:49:37	38.2823	-108.9085	-1.9	3.5	-1.4	2.0
3/5/2019	6:51:01	38.2841	-108.8917	-2.7	4.2	-0.5	1.4
3/5/2019	6:55:47	38.2846	-108.8968	-2.3	3.8	1.6	1.3
3/5/2019	6:57:45	38.2832	-108.9021	-2.4	3.9	-1.4	1.6
3/5/2019	6:58:03	38.2942	-108.9144	-3.0	4.5	-1.2	1.7
3/5/2019	6:58:04	38.2941	-108.9144	-3.0	4.5	-0.4	1.7
3/5/2019	6:58:17	38.2940	-108.9144	-3.0	4.5	-0.1	1.7
3/5/2019	6:59:31	38.2805	-108.9086	-2.0	3.5	-0.2	2.1
3/5/2019	7:00:15	38.2940	-108.9144	-3.0	4.5	-0.1	1.7
3/5/2019	7:07:59	38.2841	-108.9004	-2.4	3.9	0.4	1.5
3/5/2019	7:09:57	38.2862	-108.8969	-2.0	3.5	-0.1	1.2
3/5/2019	7:15:02	38.2846	-108.8951	-2.4	3.9	0.5	1.3
3/5/2019	7:16:49	38.2822	-108.9052	-2.1	3.6	0.1	1.8
3/5/2019	7:22:59	38.2829	-108.9054	-2.0	3.6	1.1	1.8
3/5/2019	7:36:23	38.2860	-108.8952	-2.2	3.7	0.3	1.2
3/5/2019	7:38:04	38.2836	-108.8958	-2.5	4.0	0.2	1.4
3/5/2019	7:43:24	38.2830	-108.9048	-2.0	3.6	0.3	1.7
3/5/2019	7:43:35	38.2799	-108.9070	-2.3	3.8	-0.8	2.1
3/5/2019	7:43:42	38.2941	-108.9143	-3.0	4.5	0.0	1.7
3/5/2019	7:44:02	38.2844	-108.9020	-2.1	3.6	-0.9	1.5
3/5/2019	7:45:11	38.2801	-108.9014	-2.9	4.4	-0.4	1.9
3/5/2019	7:45:18	38.2861	-108.8976	-2.1	3.6	-0.5	1.2
3/5/2019	7:45:53	38.2817	-108.9061	-2.0	3.6	-1.0	1.9
3/5/2019	7:46:14	38.2820	-108.9069	-2.0	3.6	-0.5	1.9
3/5/2019	7:48:01	38.2823	-108.9041	-2.4	3.9	0.3	1.8
3/5/2019	7:50:12	38.2826	-108.9058	-2.1	3.6	-0.9	1.8
3/5/2019	7:53:08	38.2940	-108.9142	-3.0	4.5	0.3	1.7
3/5/2019	7:56:58	38.2827	-108.9082	-2.5	4.0	-1.0	1.9
3/5/2019	7:57:03	38.2813	-108.9071	-2.0	3.5	0.6	2.0
3/5/2019	8:04:43	38.2811	-108.9075	-2.3	3.8	0.1	2.0
3/5/2019	8:07:52	38.2808	-108.9062	-2.4	3.9	0.4	2.0
3/5/2019	8:10:59	38.2804	-108.9073	-2.3	3.8	0.1	2.1
3/5/2019	8:13:39	38.2847	-108.8992	-2.3	3.8	1.2	1.4

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	8:15:58	38.2823	-108.9063	-2.0	3.6	-0.7	1.9
3/5/2019	8:19:20	38.2820	-108.9081	-2.0	3.5	-0.4	2.0
3/5/2019	8:22:41	38.2821	-108.9064	-2.3	3.9	-0.2	1.9
3/5/2019	8:23:46	38.2943	-108.9105	-3.0	4.5	-0.7	1.4
3/5/2019	8:25:07	38.2809	-108.9100	-1.9	3.4	-0.7	2.2
3/5/2019	8:25:25	38.2839	-108.9027	-2.0	3.5	-0.5	1.6
3/5/2019	8:26:30	38.2894	-108.9122	-2.7	4.2	0.9	1.7
3/5/2019	8:27:06	38.2823	-108.9041	-2.4	3.9	-0.1	1.8
3/5/2019	8:27:54	38.2893	-108.9123	-2.7	4.2	0.6	1.7
3/5/2019	8:32:10	38.2818	-108.9014	-2.7	4.2	-0.7	1.7
3/5/2019	8:36:42	38.2806	-108.9056	-2.4	3.9	-0.9	2.0
3/5/2019	8:45:47	38.2808	-108.8994	-2.8	4.3	0.9	1.8
3/5/2019	8:46:54	38.2847	-108.8984	-2.3	3.8	0.0	1.3
3/5/2019	8:50:15	38.2809	-108.9098	-1.9	3.4	-0.4	2.2
3/5/2019	8:50:57	38.2820	-108.9049	-2.3	3.8	-0.7	1.8
3/5/2019	8:51:43	38.2825	-108.9110	-2.2	3.8	-0.9	2.1
3/5/2019	8:52:18	38.2812	-108.9022	-2.7	4.2	-0.5	1.8
3/5/2019	8:54:50	38.2842	-108.8990	-2.5	4.0	0.5	1.4
3/5/2019	8:56:43	38.2832	-108.9043	-2.1	3.6	-0.1	1.7
3/5/2019	8:58:03	38.2893	-108.9125	-2.7	4.2	-0.5	1.7
3/5/2019	9:01:48	38.2891	-108.9129	-2.7	4.2	0.0	1.8
3/5/2019	9:02:43	38.2893	-108.9123	-2.7	4.2	-1.0	1.7
3/5/2019	9:02:48	38.2829	-108.9044	-2.1	3.6	-0.8	1.7
3/5/2019	9:06:38	38.2825	-108.9061	-2.0	3.6	-0.7	1.8
3/5/2019	9:13:42	38.2841	-108.9008	-2.3	3.8	-1.2	1.5
3/5/2019	9:13:54	38.2854	-108.8999	-2.0	3.5	-0.5	1.3
3/5/2019	9:28:45	38.2859	-108.8971	-2.0	3.5	-0.5	1.2
3/5/2019	9:29:29	38.2812	-108.9057	-2.4	3.9	-1.1	1.9
3/5/2019	9:35:57	38.2843	-108.9024	-2.1	3.7	-0.8	1.5
3/5/2019	9:36:08	38.2818	-108.9145	-1.7	3.2	-1.2	2.4
3/5/2019	9:37:53	38.2849	-108.8972	-3.1	4.6	-0.4	1.3
3/5/2019	9:41:04	38.2809	-108.9068	-2.4	3.9	-0.7	2.0
3/5/2019	9:42:36	38.2833	-108.9061	-1.9	3.4	-0.7	1.8
3/5/2019	9:44:03	38.2823	-108.9055	-2.0	3.6	-1.0	1.8
3/5/2019	10:00:56	38.2826	-108.9034	-2.4	3.9	0.1	1.7
3/5/2019	10:01:15	38.2801	-108.9075	-2.0	3.6	-1.2	2.1
3/5/2019	10:05:35	38.2823	-108.9057	-2.0	3.6	0.8	1.8
3/5/2019	10:07:30	38.2852	-108.8974	-2.3	3.8	-0.6	1.3
3/5/2019	10:14:43	38.2809	-108.9075	-2.3	3.8	0.1	2.1
3/5/2019	10:15:45	38.2951	-108.9160	-3.0	4.5	-0.4	1.8
3/5/2019	10:29:21	38.2832	-108.9046	-2.0	3.6	0.9	1.7
3/5/2019	10:36:55	38.2807	-108.9082	-2.3	3.8	0.2	2.1

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
3/5/2019	10:40:03	38.2804	-108.9098	-1.9	3.4	-0.4	2.2
3/5/2019	10:42:29	38.2786	-108.9056	-2.6	4.1	-1.5	2.2
3/5/2019	10:47:56	38.2811	-108.9049	-2.3	3.9	-0.9	1.9
3/5/2019	10:55:14	38.2845	-108.8937	-2.5	4.1	0.3	1.3
3/5/2019	10:56:30	38.2804	-108.9062	-2.3	3.8	-0.2	2.0
3/5/2019	10:57:21	38.2824	-108.9059	-2.0	3.6	0.3	1.8
3/5/2019	11:01:12	38.2861	-108.8987	-2.2	3.7	0.0	1.2
3/5/2019	11:01:34	38.2823	-108.8980	-1.0	2.6	-1.6	1.6
3/5/2019	11:02:41	38.2857	-108.8988	-2.1	3.6	0.2	1.2
3/5/2019	11:04:46	38.2830	-108.9015	-2.6	4.1	-1.2	1.6
3/5/2019	11:10:06	38.2806	-108.9092	-2.2	3.7	-0.3	2.2
3/5/2019	11:10:19	38.2805	-108.9091	-2.3	3.8	-1.1	2.2
3/5/2019	11:12:06	38.2894	-108.9118	-2.7	4.2	-1.1	1.7
3/5/2019	11:21:11	38.2832	-108.8962	-2.6	4.1	0.5	1.5
3/5/2019	11:21:37	38.2832	-108.8962	-2.6	4.2	-0.8	1.5
3/5/2019	11:39:45	38.2820	-108.9052	-2.1	3.6	1.2	1.8
3/5/2019	12:04:02	38.2821	-108.9042	-2.3	3.9	-0.9	1.8
3/5/2019	12:11:56	38.2819	-108.9041	-2.4	3.9	-0.6	1.8
3/5/2019	12:12:22	38.2829	-108.9056	-2.0	3.6	-0.5	1.8
3/5/2019	12:13:40	38.2939	-108.9141	-3.0	4.5	-0.7	1.7
3/5/2019	12:15:41	38.2833	-108.9058	-1.9	3.5	0.3	1.7
3/5/2019	12:15:47	38.2825	-108.9030	-2.4	3.9	0.2	1.7
3/5/2019	12:22:36	38.2822	-108.9051	-2.0	3.6	-0.8	1.8
3/5/2019	12:22:54	38.2940	-108.9141	-3.0	4.5	0.4	1.7
3/5/2019	12:23:08	38.2842	-108.8990	-2.4	4.0	0.4	1.4
3/5/2019	12:25:51	38.2823	-108.9041	-2.4	3.9	-0.3	1.8
3/5/2019	12:26:37	38.2828	-108.9062	-2.2	3.7	0.1	1.8
3/5/2019	12:26:48	38.2852	-108.8971	-2.3	3.8	-1.5	1.3
3/5/2019	12:28:41	38.2803	-108.9067	-2.3	3.8	-0.9	2.1
3/5/2019	12:29:23	38.2810	-108.9067	-2.0	3.5	-0.7	2.0
3/5/2019	12:33:14	38.2806	-108.9080	-2.0	3.5	-0.3	2.1
3/5/2019	12:34:53	38.2822	-108.8923	-2.9	4.4	-1.2	1.6
3/5/2019	12:44:00	38.2798	-108.9077	-2.3	3.9	-0.5	2.2
3/5/2019	12:45:10	38.2845	-108.8975	-2.3	3.8	0.5	1.4
3/5/2019	12:48:29	38.2806	-108.9092	-2.2	3.8	-0.9	2.2
3/5/2019	12:48:54	38.2837	-108.9053	-3.2	4.7	-1.5	1.7
3/5/2019	12:49:03	38.2782	-108.8802	-3.0	4.5	-1.5	2.4
3/5/2019	12:49:53	38.2846	-108.9010	-2.2	3.7	-0.8	1.4
3/5/2019	12:54:15	38.2804	-108.9099	-1.9	3.4	0.5	2.2
3/5/2019	12:55:24	38.2827	-108.9059	-2.1	3.6	0.7	1.8
3/5/2019	12:55:48	38.2827	-108.9057	-2.1	3.6	-0.9	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	12:56:14	38.2803	-108.9098	-1.9	3.4	-0.8	2.2
3/5/2019	12:56:43	38.2827	-108.9058	-2.1	3.6	-0.9	1.8
3/5/2019	13:01:00	38.2805	-108.9093	-2.2	3.8	-1.1	2.2
3/5/2019	13:09:48	38.2816	-108.9035	-2.5	4.1	-0.2	1.8
3/5/2019	13:11:04	38.2844	-108.8938	-2.5	4.0	0.3	1.3
3/5/2019	13:12:04	38.2773	-108.9212	-1.4	2.9	-1.1	3.1
3/5/2019	13:26:18	38.2830	-108.9031	-2.3	3.9	-0.9	1.7
3/5/2019	13:26:42	38.2807	-108.9081	-2.3	3.8	-0.4	2.1
3/5/2019	13:30:15	38.2816	-108.9062	-2.1	3.6	-0.9	1.9
3/5/2019	13:31:19	38.2815	-108.9064	-2.1	3.6	-1.2	1.9
3/5/2019	13:31:41	38.2822	-108.9039	-2.3	3.8	-1.0	1.8
3/5/2019	13:34:27	38.2859	-108.8974	-2.3	3.8	-0.1	1.2
3/5/2019	13:37:05	38.2820	-108.9071	-2.0	3.6	-0.6	1.9
3/5/2019	13:47:00	38.2827	-108.9042	-2.4	3.9	-0.8	1.7
3/5/2019	13:52:14	38.2823	-108.9056	-2.0	3.6	-0.8	1.8
3/5/2019	13:52:44	38.2825	-108.9112	-2.0	3.5	-1.5	2.1
3/5/2019	13:52:52	38.2821	-108.9078	-2.0	3.6	-1.2	2.0
3/5/2019	13:53:01	38.2822	-108.9050	-2.2	3.7	-0.5	1.8
3/5/2019	13:53:16	38.2823	-108.9057	-2.0	3.6	-0.4	1.8
3/5/2019	13:55:32	38.2855	-108.8963	-2.4	4.0	-1.3	1.2
3/5/2019	14:06:11	38.2849	-108.8944	-2.3	3.9	1.6	1.3
3/5/2019	14:17:47	38.2834	-108.9050	-1.9	3.5	-1.0	1.7
3/5/2019	14:19:12	38.2859	-108.8969	-2.0	3.5	0.4	1.2
3/5/2019	14:42:12	38.2825	-108.9039	-2.3	3.9	0.2	1.7
3/5/2019	15:09:47	38.2858	-108.8966	-2.4	3.9	-0.3	1.2
3/5/2019	15:12:16	38.2855	-108.8972	-2.3	3.8	-1.0	1.2
3/5/2019	15:21:07	38.2806	-108.9030	-2.6	4.1	-1.1	1.9
3/5/2019	15:42:14	38.2812	-108.9048	-2.4	3.9	-0.7	1.9
3/5/2019	15:43:37	38.2825	-108.9061	-2.0	3.5	-1.2	1.8
3/5/2019	15:44:11	38.2792	-108.9017	-3.3	4.8	-1.5	2.0
3/5/2019	15:53:35	38.2862	-108.8968	-2.1	3.6	-0.6	1.2
3/5/2019	15:55:22	38.2836	-108.8968	-3.4	4.9	-0.9	1.4
3/5/2019	15:56:09	38.2821	-108.9046	-2.1	3.6	1.1	1.8
3/5/2019	16:02:57	38.2829	-108.9055	-2.0	3.6	0.5	1.8
3/5/2019	16:19:13	38.2772	-108.9234	-1.4	3.0	0.2	3.3
3/5/2019	16:20:42	38.2940	-108.9101	-3.0	4.6	-0.8	1.4
3/5/2019	16:21:25	38.2821	-108.9047	-2.1	3.6	-0.7	1.8
3/5/2019	16:23:59	38.2812	-108.9050	-2.3	3.8	0.0	1.9
3/5/2019	16:25:31	38.2841	-108.8991	-2.5	4.0	1.1	1.4
3/5/2019	16:35:20	38.2813	-108.9070	-2.0	3.5	-0.1	2.0
3/5/2019	16:51:08	38.2805	-108.9039	-2.5	4.1	-0.5	1.9
3/5/2019	16:55:33	38.2807	-108.9081	-2.3	3.8	-0.6	2.1

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	17:09:34	38.2943	-108.9148	-3.0	4.5	-1.2	1.8
3/5/2019	17:09:47	38.2944	-108.9149	-3.0	4.5	-1.2	1.8
3/5/2019	17:09:54	38.2856	-108.8964	-2.3	3.8	-0.2	1.2
3/5/2019	17:10:18	38.2850	-108.9027	-2.0	3.5	-0.8	1.4
3/5/2019	17:11:50	38.2995	-108.8835	-3.1	4.6	-1.0	1.1
3/5/2019	17:12:59	38.2828	-108.9040	-2.4	3.9	-1.0	1.7
3/5/2019	17:15:05	38.2943	-108.9147	-3.0	4.5	0.4	1.7
3/5/2019	17:15:28	38.2942	-108.9145	-3.0	4.5	-0.2	1.7
3/5/2019	17:17:12	38.2822	-108.9060	-2.2	3.7	-1.0	1.9
3/5/2019	17:18:42	38.2855	-108.8979	-2.4	3.9	1.2	1.2
3/5/2019	17:25:47	38.2857	-108.8991	-2.0	3.5	0.1	1.3
3/5/2019	17:28:57	38.2842	-108.8919	-2.7	4.2	-0.7	1.4
3/5/2019	17:38:25	38.2857	-108.8989	-2.0	3.5	0.4	1.3
3/5/2019	17:40:35	38.2826	-108.9063	-2.1	3.6	0.2	1.8
3/5/2019	17:46:22	38.2828	-108.9060	-2.0	3.5	-0.7	1.8
3/5/2019	17:48:53	38.2828	-108.9063	-2.0	3.5	0.1	1.8
3/5/2019	17:53:54	38.2820	-108.9072	-2.0	3.6	-0.2	1.9
3/5/2019	18:02:40	38.2829	-108.9039	-2.3	3.9	0.2	1.7
3/5/2019	18:32:30	38.2853	-108.8971	-2.3	3.8	-1.2	1.3
3/5/2019	18:32:55	38.2804	-108.9097	-1.9	3.4	-0.2	2.2
3/5/2019	18:34:12	38.2829	-108.9043	-2.1	3.7	-1.2	1.7
3/5/2019	18:38:04	38.2677	-108.9323	0.2	1.3	-0.3	4.6
3/5/2019	18:45:03	38.2801	-108.9075	-2.1	3.6	-1.0	2.1
3/5/2019	19:02:28	38.2828	-108.9008	-2.6	4.1	-0.4	1.6
3/5/2019	19:25:14	38.2826	-108.9008	-2.6	4.1	-0.8	1.6
3/5/2019	19:59:01	38.2827	-108.9066	-2.0	3.5	-0.7	1.8
3/5/2019	20:00:09	38.2827	-108.9068	-2.0	3.6	-1.1	1.9
3/5/2019	20:17:50	38.2898	-108.9062	-2.5	4.0	-0.8	1.2
3/5/2019	20:19:00	38.2847	-108.9028	-2.5	4.1	-1.2	1.5
3/5/2019	20:35:59	38.2801	-108.9001	-2.8	4.3	0.6	1.9
3/5/2019	20:45:30	38.2813	-108.9050	-2.3	3.8	-0.8	1.9
3/5/2019	21:25:37	38.2833	-108.8839	-2.6	4.1	-0.9	1.8
3/5/2019	21:35:19	38.2810	-108.9071	-2.3	3.8	0.6	2.0
3/5/2019	21:39:56	38.2830	-108.9055	-2.0	3.5	-1.0	1.8
3/5/2019	21:52:17	38.2801	-108.9104	-1.9	3.4	-0.8	2.3
3/5/2019	21:54:35	38.2821	-108.9066	-2.3	3.9	-0.7	1.9
3/5/2019	22:04:26	38.2822	-108.9051	-2.0	3.6	-0.6	1.8
3/5/2019	22:19:18	38.2828	-108.9048	-2.1	3.7	-0.5	1.8
3/5/2019	22:20:58	38.2833	-108.9002	-2.5	4.0	-0.1	1.5
3/5/2019	22:27:48	38.2803	-108.9101	-1.9	3.4	-0.5	2.2
3/5/2019	23:15:00	38.2822	-108.9051	-2.1	3.6	0.9	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/5/2019	23:26:35	38.2800	-108.9076	-2.0	3.6	-0.9	2.1
3/6/2019	0:19:30	38.2785	-108.9070	-2.5	4.0	0.0	2.3
3/6/2019	0:35:22	38.2828	-108.9062	-2.0	3.5	0.8	1.8
3/6/2019	0:42:13	38.2772	-108.9234	-1.4	3.0	0.8	3.3
3/6/2019	0:43:15	38.2772	-108.9233	-1.4	3.0	0.3	3.3
3/6/2019	0:44:14	38.2803	-108.9029	-2.8	4.4	-0.8	1.9
3/6/2019	0:44:22	38.2772	-108.9234	-1.4	2.9	-0.2	3.3
3/6/2019	1:00:42	38.2817	-108.9058	-2.3	3.9	0.0	1.9
3/6/2019	1:02:30	38.2939	-108.9140	-3.0	4.5	-0.2	1.7
3/6/2019	1:03:26	38.2821	-108.9071	-2.1	3.7	-1.1	1.9
3/6/2019	1:04:51	38.2947	-108.9107	-2.5	4.0	-1.2	1.4
3/6/2019	1:05:12	38.2859	-108.9001	-2.2	3.8	-0.4	1.3
3/6/2019	1:16:12	38.2773	-108.9232	-1.4	3.0	0.3	3.3
3/6/2019	1:23:14	38.2819	-108.9056	-2.4	3.9	0.1	1.9
3/6/2019	1:26:44	38.2823	-108.9057	-2.5	4.0	-1.2	1.8
3/6/2019	1:26:58	38.2858	-108.8985	-2.0	3.5	-0.6	1.2
3/6/2019	1:31:55	38.2827	-108.9045	-2.1	3.6	-0.3	1.7
3/6/2019	1:52:12	38.2821	-108.9038	-2.4	3.9	-0.1	1.8
3/6/2019	1:54:17	38.2852	-108.9007	-3.1	4.6	-0.6	1.4
3/6/2019	2:03:42	38.2822	-108.9038	-2.4	3.9	1.4	1.8
3/6/2019	2:14:56	38.2821	-108.9077	-2.0	3.5	-0.1	1.9
3/6/2019	2:16:22	38.2823	-108.9057	-2.0	3.6	0.2	1.8
3/6/2019	2:16:23	38.2833	-108.9040	-2.1	3.6	0.2	1.7
3/6/2019	2:19:58	38.2829	-108.9042	-2.1	3.6	-0.2	1.7
3/6/2019	2:55:46	38.2820	-108.9084	-2.0	3.5	-0.9	2.0
3/6/2019	2:58:08	38.2859	-108.8976	-2.0	3.5	-0.5	1.2
3/6/2019	2:58:40	38.2802	-108.9103	-1.9	3.4	0.1	2.3
3/6/2019	3:09:07	38.2827	-108.8999	-2.6	4.1	0.3	1.6
3/6/2019	3:34:08	38.2840	-108.8955	-2.5	4.0	-0.1	1.4
3/6/2019	3:37:06	38.2820	-108.9040	-2.3	3.9	-0.2	1.8
3/6/2019	3:42:26	38.2839	-108.9031	-2.1	3.6	0.0	1.6
3/6/2019	4:23:37	38.2858	-108.8968	-2.3	3.9	-0.1	1.2
3/6/2019	4:37:14	38.2829	-108.9057	-2.0	3.5	0.0	1.8
3/6/2019	4:38:47	38.2867	-108.8965	-2.3	3.8	-0.8	1.1
3/6/2019	5:09:12	38.2855	-108.8930	-2.2	3.7	0.0	1.2
3/6/2019	5:11:01	38.2830	-108.9033	-2.3	3.8	-0.7	1.7
3/6/2019	5:21:24	38.2819	-108.9044	-2.3	3.9	-0.1	1.8
3/6/2019	5:22:13	38.2840	-108.9008	0.7	0.8	-1.5	1.5
3/6/2019	5:23:30	38.2845	-108.9120	-1.5	3.0	-1.2	2.0
3/6/2019	5:52:12	38.2830	-108.9041	-2.1	3.6	-0.2	1.7
3/6/2019	6:00:30	38.2800	-108.9038	-2.7	4.3	-0.7	2.0
3/6/2019	6:00:38	38.2833	-108.9024	-2.3	3.8	-1.4	1.6

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
3/6/2019	6:08:54	38.2820	-108.9044	-2.1	3.6	0.9	1.8
3/6/2019	6:18:15	38.2845	-108.8946	-2.3	3.8	0.2	1.3
3/6/2019	6:24:58	38.2818	-108.9068	-2.0	3.5	-1.1	1.9
3/6/2019	6:25:36	38.2822	-108.9040	-2.4	3.9	0.2	1.8
3/6/2019	6:28:56	38.2859	-108.8971	-2.0	3.5	-0.2	1.2
3/6/2019	6:32:52	38.2804	-108.9099	-1.9	3.4	0.3	2.2
3/6/2019	7:49:54	38.2856	-108.9075	-2.1	3.6	2.4	1.6
3/6/2019	7:56:19	38.2820	-108.9078	-2.1	3.6	0.1	2.0
3/6/2019	7:57:23	38.2854	-108.9078	-2.1	3.6	-0.7	1.7
3/6/2019	8:00:14	38.2822	-108.9084	-2.0	3.6	-0.5	2.0
3/6/2019	8:00:55	38.2825	-108.9063	-2.0	3.6	-0.4	1.8
3/6/2019	8:02:53	38.2858	-108.9070	-2.1	3.6	0.1	1.6
3/6/2019	8:06:23	38.2771	-108.9235	-1.4	3.0	-0.1	3.3
3/6/2019	8:06:46	38.2860	-108.8986	-2.0	3.6	-0.8	1.2
3/6/2019	8:08:17	38.2859	-108.9069	-2.1	3.6	0.7	1.6
3/6/2019	8:08:26	38.2858	-108.9073	-2.1	3.6	-1.1	1.6
3/6/2019	8:09:55	38.2819	-108.9082	-2.0	3.5	0.1	2.0
3/6/2019	8:12:48	38.2853	-108.9000	-2.0	3.5	0.0	1.3
3/6/2019	8:13:12	38.2859	-108.9074	-2.1	3.7	0.0	1.6
3/6/2019	8:24:02	38.2857	-108.9070	-2.1	3.7	-0.1	1.6
3/6/2019	8:41:36	38.2825	-108.9041	-2.3	3.8	1.3	1.8
3/6/2019	8:56:54	38.2825	-108.9066	-2.0	3.6	0.3	1.9
3/6/2019	8:57:06	38.2862	-108.8949	-2.1	3.6	-0.9	1.2
3/6/2019	9:00:41	38.2819	-108.9052	-2.1	3.6	0.7	1.9
3/6/2019	9:17:43	38.2830	-108.9031	-2.3	3.9	-0.8	1.7
3/6/2019	9:17:28	38.2803	-108.9096	-1.9	3.4	-0.4	2.2
3/6/2019	9:51:41	38.2827	-108.9068	-2.0	3.5	-0.3	1.8
3/6/2019	9:52:31	38.2827	-108.9071	-2.0	3.6	-0.8	1.9
3/6/2019	9:53:20	38.2858	-108.9074	-2.0	3.6	-0.2	1.6
3/6/2019	10:00:13	38.2810	-108.9071	-2.3	3.8	0.1	2.0
3/6/2019	10:06:59	38.2838	-108.9025	-2.3	3.8	0.3	1.6
3/6/2019	10:10:25	38.2858	-108.9072	-2.1	3.6	0.2	1.6
3/6/2019	10:10:45	38.2821	-108.8964	-2.8	4.3	-0.3	1.6
3/6/2019	10:12:29	38.2813	-108.9048	-2.3	3.8	-0.1	1.9
3/6/2019	10:41:41	38.2853	-108.8999	-2.0	3.5	-0.1	1.3
3/6/2019	10:44:20	38.2817	-108.9048	-2.4	3.9	-0.2	1.9
3/6/2019	10:47:24	38.2821	-108.9048	-2.1	3.6	-0.3	1.8
3/6/2019	10:51:25	38.2859	-108.9069	-2.1	3.6	0.7	1.6
3/6/2019	11:38:49	38.2810	-108.9055	-2.3	3.8	0.0	2.0
3/6/2019	11:40:54	38.2887	-108.9055	-3.2	4.7	-0.5	1.3
3/6/2019	11:41:04	38.2803	-108.9096	-1.9	3.5	-0.7	2.2

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/6/2019	11:45:07	38.2861	-108.8965	-2.1	3.6	-0.3	1.2
3/6/2019	11:58:33	38.2821	-108.9047	-2.1	3.6	-0.7	1.8
3/6/2019	12:20:56	38.2822	-108.9051	-2.0	3.6	-0.5	1.8
3/6/2019	12:34:45	38.2818	-108.9040	-2.4	3.9	1.0	1.8
3/6/2019	12:57:34	38.2831	-108.8918	-2.8	4.3	-0.2	1.5
3/6/2019	12:58:26	38.2875	-108.9077	-2.3	3.9	-0.8	1.5
3/6/2019	13:10:09	38.2827	-108.9069	-2.0	3.6	-0.2	1.9
3/6/2019	13:21:54	38.2873	-108.9085	-3.1	4.7	-0.6	1.6
3/6/2019	13:24:06	38.2852	-108.8980	-2.3	3.8	-0.5	1.3
3/6/2019	13:24:20	38.2826	-108.9062	-2.0	3.6	-0.7	1.8
3/6/2019	13:25:02	38.2823	-108.9053	-2.0	3.6	-0.2	1.8
3/6/2019	13:29:41	38.2859	-108.9069	-2.1	3.7	0.8	1.6
3/6/2019	13:34:22	38.2799	-108.9078	-2.3	3.8	-0.4	2.2
3/6/2019	13:49:59	38.2856	-108.9072	-2.1	3.6	-0.6	1.6
3/6/2019	13:50:12	38.2851	-108.8981	-2.3	3.8	-0.3	1.3
3/6/2019	13:52:43	38.2820	-108.8847	-3.1	4.6	-0.3	1.8
3/6/2019	14:12:07	38.2860	-108.8977	-2.4	3.9	0.2	1.2
3/6/2019	14:30:43	38.2804	-108.9065	-2.3	3.9	0.2	2.1
3/6/2019	14:43:07	38.2853	-108.8977	-2.3	3.8	-0.2	1.3
3/6/2019	14:47:03	38.2820	-108.8852	-3.1	4.7	0.1	1.8
3/6/2019	15:19:30	38.2835	-108.9035	-2.1	3.6	-0.4	1.6
3/6/2019	15:41:20	38.2832	-108.9049	-2.1	3.6	-0.5	1.7
3/6/2019	15:49:20	38.2851	-108.9084	-2.1	3.6	2.4	1.7
3/6/2019	15:57:52	38.2852	-108.9080	-2.1	3.6	2.3	1.7
3/6/2019	16:09:28	38.2854	-108.9078	-2.1	3.6	-0.5	1.7
3/6/2019	16:25:58	38.2851	-108.9078	-2.1	3.7	-0.1	1.7
3/6/2019	17:12:05	38.2853	-108.8998	-2.1	3.6	-0.9	1.3
3/6/2019	17:16:51	38.2822	-108.9055	-2.1	3.6	-0.1	1.8
3/6/2019	17:46:16	38.2822	-108.9041	-2.4	3.9	1.3	1.8
3/6/2019	18:00:37	38.2803	-108.9100	-1.9	3.4	-0.5	2.2
3/6/2019	18:03:49	38.2823	-108.9056	-2.4	3.9	0.1	1.8
3/6/2019	18:15:33	38.2848	-108.8992	-2.4	3.9	-0.8	1.3
3/6/2019	18:17:42	38.2846	-108.8965	-2.3	3.8	-0.5	1.3
3/6/2019	18:19:54	38.2846	-108.8966	-2.3	3.8	0.9	1.3
3/6/2019	18:26:41	38.2839	-108.8986	-2.4	4.0	-0.8	1.4
3/6/2019	18:28:06	38.2818	-108.9040	-2.3	3.9	-0.6	1.8
3/6/2019	19:27:11	38.2826	-108.9058	-2.1	3.6	-0.4	1.8
3/6/2019	19:42:51	38.2795	-108.9069	-2.5	4.1	-0.7	2.2
3/6/2019	19:46:44	38.2865	-108.8968	-2.2	3.7	-0.2	1.1
3/6/2019	19:49:18	38.2836	-108.8992	-2.5	4.0	-0.5	1.5
3/6/2019	19:50:42	38.2677	-108.9322	0.2	1.3	0.4	4.6
3/6/2019	20:01:39	38.2819	-108.9038	-2.4	4.0	0.3	1.8

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
3/6/2019	20:02:28	38.2819	-108.9045	-2.4	3.9	0.1	1.8
3/6/2019	20:10:38	38.2861	-108.8977	-2.1	3.6	0.3	1.2
3/6/2019	20:12:00	38.2862	-108.8956	-2.2	3.7	0.1	1.1
3/6/2019	20:40:12	38.2813	-108.9071	-2.0	3.5	-0.4	2.0
3/6/2019	20:41:48	38.2942	-108.9123	-3.0	4.5	-0.2	1.5
3/6/2019	20:43:39	38.2943	-108.9123	-3.0	4.5	0.0	1.5
3/6/2019	20:44:28	38.2977	-108.9087	-3.2	4.7	-0.5	1.2
3/6/2019	21:01:50	38.2980	-108.9133	-2.7	4.2	-1.3	1.6
3/6/2019	21:01:54	38.2839	-108.9026	-2.4	3.9	-0.8	1.6
3/6/2019	21:03:36	38.2832	-108.9052	-1.9	3.4	-0.3	1.7
3/6/2019	21:14:52	38.2944	-108.9125	-3.0	4.5	-0.2	1.6
3/6/2019	21:42:13	38.2831	-108.9041	-2.1	3.6	-0.7	1.7
3/6/2019	22:16:47	38.2855	-108.8982	-2.3	3.8	0.3	1.3
3/6/2019	22:32:48	38.2832	-108.9052	-2.0	3.6	-0.5	1.7
3/6/2019	22:39:39	38.2823	-108.9055	-2.0	3.5	-0.3	1.8
3/6/2019	22:42:50	38.2800	-108.9073	-2.9	4.4	-0.8	2.1
3/6/2019	23:30:40	38.2848	-108.9017	-2.1	3.6	-0.7	1.4
3/6/2019	23:49:54	38.2827	-108.9032	-2.4	3.9	0.2	1.7
3/7/2019	0:21:26	38.2847	-108.8966	-2.3	3.9	-0.5	1.3
3/7/2019	1:40:01	38.2820	-108.9069	-2.3	3.9	-0.4	1.9
3/7/2019	1:54:29	38.2807	-108.9076	-2.3	3.8	0.2	2.1
3/7/2019	2:14:11	38.2856	-108.9078	-2.0	3.5	-0.4	1.7
3/7/2019	2:36:40	38.2859	-108.8969	-2.3	3.8	0.0	1.2
3/7/2019	2:46:39	38.2823	-108.9064	-2.0	3.5	-0.7	1.9
3/7/2019	2:57:36	38.2849	-108.9093	-1.9	3.5	-0.2	1.8
3/7/2019	2:59:15	38.2823	-108.9052	-2.0	3.6	0.2	1.8
3/7/2019	3:02:24	38.2825	-108.9037	-2.4	3.9	-0.4	1.7
3/7/2019	3:09:43	38.2850	-108.9016	-2.1	3.6	-0.7	1.4
3/7/2019	3:12:44	38.2836	-108.8834	-2.7	4.2	-0.5	1.8
3/7/2019	4:09:27	38.2844	-108.8904	-2.5	4.0	-0.3	1.4
3/7/2019	4:14:29	38.2829	-108.9056	-2.0	3.5	0.0	1.8
3/7/2019	4:27:05	38.2825	-108.9108	0.5	1.0	-0.6	2.1
3/7/2019	4:48:22	38.2822	-108.9043	-2.3	3.9	-0.7	1.8
3/7/2019	5:04:23	38.2827	-108.9062	-2.0	3.6	-0.4	1.8
3/7/2019	5:26:59	38.2855	-108.9007	-2.2	3.7	-0.5	1.3
3/7/2019	6:26:08	38.2858	-108.9069	-2.1	3.6	-0.1	1.6
3/7/2019	6:38:13	38.2828	-108.9052	-2.3	3.9	0.3	1.8
3/7/2019	7:07:15	38.2860	-108.9069	-2.1	3.6	1.1	1.6
3/7/2019	7:12:03	38.2827	-108.9047	-2.1	3.7	-0.1	1.8
3/7/2019	7:30:39	38.2805	-108.9088	-2.0	3.5	-0.6	2.1
3/7/2019	7:43:02	38.2821	-108.9068	-2.3	3.9	-0.3	1.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/7/2019	8:08:47	38.2837	-108.9017	-2.4	3.9	-0.2	1.5
3/7/2019	8:17:18	38.2857	-108.9073	-2.1	3.6	1.6	1.6
3/7/2019	8:24:27	38.2860	-108.9067	-2.1	3.6	-0.1	1.6
3/7/2019	8:28:38	38.2816	-108.9047	-2.4	3.9	-0.3	1.9
3/7/2019	8:33:04	38.2858	-108.9069	-2.1	3.7	0.3	1.6
3/7/2019	8:33:42	38.2820	-108.9146	-1.7	3.2	-0.5	2.4
3/7/2019	8:43:11	38.2788	-108.9023	-2.7	4.2	0.2	2.1
3/7/2019	8:50:26	38.2859	-108.9068	-2.1	3.7	0.1	1.6
3/7/2019	8:59:22	38.2821	-108.9071	-2.1	3.6	0.3	1.9
3/7/2019	9:23:41	38.2825	-108.9012	-2.6	4.2	0.3	1.7
3/7/2019	9:26:15	38.2803	-108.9099	-1.9	3.4	-0.1	2.2
3/7/2019	9:27:16	38.4127	-108.9358	-4.0	5.5	-0.7	13.4
3/7/2019	9:38:22	38.2830	-108.9032	-2.3	3.9	0.3	1.7
3/7/2019	9:39:39	38.2827	-108.9056	-2.1	3.6	-0.6	1.8
3/7/2019	9:41:09	38.2812	-108.8978	-3.1	4.6	-0.8	1.7
3/7/2019	9:45:28	38.2860	-108.9068	-2.1	3.6	0.1	1.6
3/7/2019	10:14:14	38.2860	-108.9067	-2.1	3.6	0.4	1.6
3/7/2019	10:33:39	38.2821	-108.9071	-2.1	3.6	0.3	1.9
3/7/2019	10:34:46	38.2813	-108.9049	-2.3	3.8	1.4	1.9
3/7/2019	11:25:39	38.2807	-108.9092	-2.2	3.8	-0.9	2.2
3/7/2019	11:25:50	38.2804	-108.9090	-2.3	3.8	-0.8	2.2
3/7/2019	11:52:57	38.2861	-108.8974	-2.0	3.5	0.3	1.2
3/7/2019	12:09:18	38.2802	-108.9103	-1.9	3.4	-0.6	2.3
3/7/2019	12:16:03	38.2845	-108.8970	-2.3	3.8	1.2	1.3
3/7/2019	12:49:47	38.2801	-108.9077	-2.0	3.6	-0.4	2.1
3/7/2019	12:53:38	38.2860	-108.8979	-2.3	3.8	-1.4	1.2
3/7/2019	12:53:43	38.2825	-108.9060	-2.0	3.5	-0.5	1.8
3/7/2019	12:56:51	38.2823	-108.9044	-2.3	3.9	0.5	1.8
3/7/2019	12:59:36	38.2820	-108.9076	-2.1	3.6	-0.6	2.0
3/7/2019	13:08:30	38.2825	-108.9063	-2.0	3.6	-0.1	1.8
3/7/2019	13:11:14	38.2821	-108.9071	-2.0	3.6	1.0	1.9
3/7/2019	13:12:11	38.2841	-108.9032	-2.1	3.7	-1.4	1.6
3/7/2019	13:12:38	38.2823	-108.9054	-2.3	3.9	0.1	1.8
3/7/2019	13:16:57	38.2820	-108.9080	-2.1	3.6	-0.4	2.0
3/7/2019	13:34:40	38.2803	-108.9098	-1.9	3.4	-0.3	2.2
3/7/2019	14:03:10	38.2892	-108.9127	-2.7	4.3	-0.5	1.8
3/7/2019	14:09:04	38.2809	-108.9106	-1.8	3.3	-1.5	2.2
3/7/2019	14:09:08	38.2840	-108.8918	-2.6	4.2	-0.5	1.4
3/7/2019	14:09:50	38.2841	-108.8916	-2.7	4.2	-0.5	1.4
3/7/2019	16:23:25	38.2848	-108.8993	-2.0	3.6	-0.7	1.4
3/7/2019	17:00:08	38.2837	-108.9055	-2.4	4.0	-0.1	1.7
3/7/2019	17:00:42	38.2828	-108.9013	-2.5	4.0	0.3	1.6

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/7/2019	17:01:29	38.2828	-108.9062	-2.0	3.5	-0.6	1.8
3/7/2019	17:05:11	38.2828	-108.9063	-2.0	3.5	0.1	1.8
3/7/2019	17:06:43	38.2833	-108.9058	-2.0	3.5	0.0	1.8
3/7/2019	17:12:58	38.2808	-108.9081	-2.3	3.8	-0.8	2.1
3/7/2019	17:18:04	38.2828	-108.9061	-2.0	3.5	-0.7	1.8
3/7/2019	17:36:20	38.2887	-108.9095	-3.7	5.2	-0.9	1.5
3/7/2019	17:40:08	38.2826	-108.9062	-2.0	3.5	-0.4	1.8
3/7/2019	18:05:20	38.2802	-108.9002	-2.8	4.4	0.4	1.9
3/7/2019	20:04:55	38.2860	-108.8967	-2.4	3.9	-0.5	1.2
3/7/2019	20:23:42	38.2853	-108.9002	-2.0	3.5	-0.6	1.3
3/7/2019	21:03:45	38.2837	-108.9037	-2.1	3.6	-0.4	1.6
3/7/2019	21:12:37	38.2825	-108.9062	-2.0	3.5	0.2	1.8
3/7/2019	22:14:18	38.2803	-108.8951	-3.1	4.6	-0.1	1.8
3/7/2019	22:30:23	38.2831	-108.9050	-2.1	3.6	-0.6	1.7
3/7/2019	23:17:16	38.2813	-108.9063	-2.3	3.8	-1.3	2.0
3/7/2019	23:17:20	38.2814	-108.9075	-2.3	3.8	0.0	2.0
3/7/2019	23:37:26	38.2838	-108.9022	-2.1	3.6	-1.0	1.5
3/7/2019	23:37:38	38.2820	-108.9041	-2.0	3.6	-0.8	1.8
3/7/2019	23:38:12	38.2842	-108.8919	-2.7	4.2	0.0	1.4
3/7/2019	23:39:02	38.2822	-108.9067	-2.1	3.6	0.0	1.9
3/7/2019	23:49:49	38.2760	-108.9238	-1.8	3.3	-0.7	3.4
3/8/2019	0:17:21	38.2801	-108.9077	-2.0	3.5	-0.3	2.1
3/8/2019	0:33:26	38.2826	-108.9058	-2.2	3.8	0.3	1.8
3/8/2019	0:45:19	38.2846	-108.8951	-2.3	3.8	1.0	1.3
3/8/2019	1:45:11	38.2859	-108.9067	-2.1	3.6	-0.4	1.6
3/8/2019	1:46:23	38.2861	-108.9069	-2.1	3.6	-1.0	1.6
3/8/2019	2:03:51	38.2822	-108.9039	-2.3	3.9	-0.5	1.8
3/8/2019	2:21:33	38.2844	-108.8990	-2.3	3.8	0.6	1.4
3/8/2019	2:36:58	38.2825	-108.9047	-2.1	3.6	-0.4	1.8
3/8/2019	2:48:53	38.2890	-108.9063	-2.6	4.1	0.1	1.3
3/8/2019	3:01:12	38.2795	-108.9002	-2.8	4.4	1.0	1.9
3/8/2019	3:11:42	38.2860	-108.9070	-2.1	3.6	-0.6	1.6
3/8/2019	3:38:32	38.2862	-108.8976	-2.1	3.6	0.9	1.2
3/8/2019	4:08:31	38.2827	-108.9009	-2.5	4.1	0.6	1.6
3/8/2019	4:40:37	38.2857	-108.8993	-2.0	3.5	-0.1	1.3
3/8/2019	4:58:18	38.2822	-108.9086	-2.0	3.5	0.2	2.0
3/8/2019	5:06:21	38.2791	-108.9059	-2.6	4.1	1.2	2.2
3/8/2019	5:31:37	38.2821	-108.9067	-2.3	3.9	-0.3	1.9
3/8/2019	5:33:37	38.2824	-108.9065	-2.0	3.6	-0.7	1.9
3/8/2019	5:45:12	38.2823	-108.9085	-2.0	3.5	-0.4	2.0
3/8/2019	5:48:20	38.2805	-108.9017	-2.8	4.4	-0.2	1.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/8/2019	6:01:20	38.2845	-108.8970	-2.3	3.8	-0.3	1.4
3/8/2019	6:30:48	38.2828	-108.9062	-2.0	3.5	1.1	1.8
3/8/2019	6:32:09	38.2860	-108.9070	-2.1	3.6	-0.9	1.6
3/8/2019	6:33:06	38.2827	-108.9063	-2.0	3.5	0.0	1.8
3/8/2019	6:33:24	38.2828	-108.9061	-2.0	3.6	-1.0	1.8
3/8/2019	6:34:18	38.2827	-108.9062	-2.0	3.6	-0.2	1.8
3/8/2019	7:06:55	38.2800	-108.9083	-2.1	3.6	-0.6	2.2
3/8/2019	7:07:59	38.2829	-108.9032	-2.3	3.8	0.1	1.7
3/8/2019	7:35:01	38.2849	-108.8985	-2.3	3.8	0.1	1.3
3/8/2019	7:38:54	38.2819	-108.9069	-2.0	3.6	-1.1	1.9
3/8/2019	7:58:30	38.2829	-108.9053	-2.1	3.6	-0.2	1.8
3/8/2019	8:32:28	38.2823	-108.9052	-2.0	3.6	-0.2	1.8
3/8/2019	9:18:18	38.2849	-108.8985	-2.3	3.8	2.5	1.3
3/8/2019	9:47:46	38.2824	-108.9058	-2.0	3.5	0.6	1.8
3/8/2019	11:37:45	38.2829	-108.9050	-2.1	3.6	-0.1	1.7
3/8/2019	11:45:07	38.2827	-108.9063	-2.0	3.6	0.6	1.8
3/8/2019	11:46:30	38.2817	-108.9057	-2.3	3.9	-0.7	1.9
3/8/2019	11:57:54	38.2827	-108.9067	-2.0	3.6	-0.2	1.8
3/8/2019	12:10:59	38.2824	-108.9059	-2.1	3.6	-0.6	1.8
3/8/2019	12:41:21	38.2828	-108.9051	-2.1	3.6	-0.5	1.8
3/8/2019	12:41:33	38.2842	-108.8985	-2.4	4.0	-0.7	1.4
3/8/2019	12:44:29	38.2820	-108.9039	-2.4	3.9	1.1	1.8
3/8/2019	13:25:22	38.2770	-108.9245	-1.5	3.0	-0.3	3.4
3/8/2019	15:01:32	38.2821	-108.9073	-2.1	3.6	-0.4	1.9
3/8/2019	15:17:54	38.2824	-108.9040	-2.3	3.9	2.0	1.8
3/8/2019	15:50:14	38.2811	-108.9073	-2.3	3.8	1.7	2.0
3/8/2019	16:13:20	38.2804	-108.9065	-2.3	3.8	0.1	2.1
3/8/2019	16:22:19	38.3217	-108.7273	-9.6	11.2	0.0	14.9
3/8/2019	16:27:18	38.2856	-108.8995	-2.0	3.6	-0.5	1.3
3/8/2019	19:27:56	38.2792	-108.9059	-2.7	4.2	-0.3	2.1
3/8/2019	19:37:18	38.2821	-108.9046	-2.0	3.6	-0.3	1.8
3/8/2019	19:52:55	38.2825	-108.9060	-2.0	3.6	0.6	1.8
3/8/2019	21:02:20	38.2848	-108.8985	-2.3	3.9	0.1	1.3
3/8/2019	22:14:03	38.2839	-108.8989	-2.5	4.0	-0.2	1.4
3/9/2019	0:56:10	38.2828	-108.9051	-2.3	3.9	0.7	1.8
3/9/2019	1:01:53	38.2820	-108.9045	-2.2	3.7	-0.3	1.8
3/9/2019	1:15:33	38.2803	-108.8998	-2.8	4.3	0.9	1.9
3/9/2019	1:25:40	38.2801	-108.9073	-2.3	3.8	1.3	2.1
3/9/2019	1:51:56	38.2809	-108.9099	-1.9	3.4	-0.4	2.2
3/9/2019	2:31:35	38.2848	-108.8991	-2.4	3.9	1.0	1.4
3/9/2019	2:35:12	38.2829	-108.9040	-2.2	3.7	-0.5	1.7
3/9/2019	2:38:04	38.2808	-108.8959	-3.0	4.5	-0.2	1.8

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
3/9/2019	3:47:51	38.2837	-108.9031	-2.1	3.6	-0.2	1.6
3/9/2019	4:03:33	38.2837	-108.9030	-2.1	3.6	-0.1	1.6
3/9/2019	4:04:02	38.2841	-108.8977	-2.7	4.2	-0.3	1.4
3/9/2019	5:50:27	38.2802	-108.9103	-1.9	3.4	0.4	2.3
3/9/2019	5:55:32	38.2829	-108.9053	-2.0	3.5	-0.3	1.8
3/9/2019	5:55:48	38.2830	-108.9053	-2.0	3.6	-0.3	1.8
3/9/2019	6:06:31	38.2828	-108.9052	-2.2	3.7	-0.4	1.8
3/9/2019	6:31:14	38.2830	-108.9051	-2.0	3.6	-0.6	1.7
3/9/2019	7:30:15	38.2823	-108.9053	-2.0	3.5	-0.4	1.8
3/9/2019	7:33:40	38.2946	-108.9087	-3.0	4.5	-0.6	1.2
3/9/2019	7:34:01	38.2922	-108.9097	-2.5	4.0	-1.0	1.4
3/9/2019	7:34:09	38.2944	-108.9088	-3.0	4.5	-0.5	1.2
3/9/2019	7:45:26	38.2945	-108.9085	-3.0	4.6	0.4	1.2
3/9/2019	7:53:25	38.2945	-108.9083	-3.0	4.5	-0.7	1.2
3/9/2019	8:02:25	38.2946	-108.9085	-3.0	4.5	-0.2	1.2
3/9/2019	8:09:47	38.2826	-108.9081	-2.1	3.6	0.5	1.9
3/9/2019	8:38:31	38.2813	-108.9063	-2.3	3.8	-0.5	2.0
3/9/2019	9:35:15	38.2829	-108.9049	-2.3	3.9	-0.3	1.7
3/9/2019	10:14:46	38.2773	-108.8992	-3.6	5.2	-0.1	2.2
3/9/2019	10:52:07	38.2865	-108.8975	-2.1	3.6	-0.1	1.1
3/9/2019	11:28:57	38.2796	-108.9003	-2.8	4.3	0.6	1.9
3/9/2019	11:34:47	38.2824	-108.9056	-2.0	3.6	-0.2	1.8
3/9/2019	11:50:13	38.2858	-108.8967	-2.3	3.9	-0.4	1.2
3/9/2019	12:26:29	38.2821	-108.9045	-2.1	3.6	0.4	1.8
3/9/2019	13:52:31	38.2820	-108.9076	-2.1	3.6	-0.2	2.0
3/9/2019	14:10:03	38.2908	-108.9120	-2.8	4.3	1.8	1.6
3/9/2019	14:13:05	38.2908	-108.9119	-2.8	4.3	0.7	1.6
3/9/2019	14:50:42	38.2833	-108.9039	-2.1	3.6	0.4	1.7
3/9/2019	15:14:55	38.2833	-108.9025	-2.3	3.8	-0.5	1.6
3/9/2019	17:17:21	38.2833	-108.9021	-2.4	3.9	-0.1	1.6
3/9/2019	17:26:09	38.2825	-108.9040	-2.3	3.9	-0.3	1.7
3/9/2019	18:11:04	38.2821	-108.9037	-2.4	3.9	-0.6	1.8
3/9/2019	18:20:25	38.2795	-108.9069	-2.6	4.1	-0.1	2.2
3/9/2019	19:19:48	38.2828	-108.9033	-2.4	3.9	2.4	1.7
3/9/2019	19:48:51	38.2848	-108.9009	-2.1	3.7	0.0	1.4
3/9/2019	20:29:36	38.2792	-108.9005	-2.9	4.4	0.1	2.0
3/9/2019	22:33:21	38.2822	-108.9054	-2.1	3.6	-0.3	1.8
3/9/2019	22:41:27	38.2816	-108.9057	-2.4	3.9	-0.4	1.9
3/9/2019	22:44:21	38.2820	-108.9080	-2.0	3.6	-0.7	2.0
3/9/2019	23:04:51	38.2832	-108.9062	-1.9	3.5	1.1	1.8
3/9/2019	23:17:57	38.2834	-108.9057	-2.0	3.5	-0.8	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/9/2019	23:54:09	38.2794	-108.8984	-3.1	4.6	0.0	1.9
3/10/2019	0:49:40	38.2908	-108.9123	-2.8	4.3	0.6	1.6
3/10/2019	1:01:29	38.2827	-108.9068	-2.0	3.6	-0.1	1.9
3/10/2019	1:16:22	38.2820	-108.9072	-2.1	3.6	0.5	1.9
3/10/2019	2:14:50	38.2845	-108.8987	-3.1	4.6	-0.1	1.4
3/10/2019	2:15:11	38.2824	-108.9058	-2.0	3.5	-1.1	1.8
3/10/2019	3:03:38	38.2827	-108.9046	-2.1	3.6	-0.3	1.8
3/10/2019	5:28:18	38.2805	-108.9066	-2.3	3.8	1.3	2.1
3/10/2019	6:00:46	38.2847	-108.8949	-2.3	3.8	0.7	1.3
3/10/2019	6:38:28	38.2828	-108.9062	-2.0	3.5	0.9	1.8
3/10/2019	6:58:38	38.2791	-108.9020	-2.9	4.5	-0.2	2.0
3/10/2019	7:11:47	38.2843	-108.9001	-2.3	3.9	0.1	1.4
3/10/2019	7:14:37	38.2910	-108.9119	-2.7	4.3	1.2	1.6
3/10/2019	7:42:21	38.2826	-108.9064	-2.0	3.5	0.1	1.8
3/10/2019	9:23:59	38.2850	-108.9084	-2.1	3.6	0.4	1.7
3/10/2019	9:52:25	38.2829	-108.9052	-2.3	3.8	-0.5	1.8
3/10/2019	10:00:09	38.2830	-108.9052	-2.0	3.6	0.4	1.8
3/10/2019	10:32:55	38.2858	-108.8987	-2.1	3.6	0.9	1.2
3/10/2019	10:50:11	38.2805	-108.9064	-2.3	3.8	-0.5	2.0
3/10/2019	12:22:33	38.2821	-108.9054	-2.3	3.8	-0.1	1.8
3/10/2019	13:05:21	38.2829	-108.9057	-2.0	3.5	0.8	1.8
3/10/2019	13:18:31	38.2831	-108.9037	-2.3	3.9	0.1	1.7
3/10/2019	13:38:40	38.2824	-108.9034	-2.4	3.9	-0.5	1.7
3/10/2019	15:12:06	38.2822	-108.9051	-2.1	3.6	0.5	1.8
3/10/2019	17:14:20	38.2908	-108.9125	-2.7	4.3	-0.1	1.7
3/10/2019	17:31:16	38.2772	-108.8996	-2.3	3.8	-0.3	2.2
3/10/2019	18:02:53	38.2840	-108.9010	-2.3	3.9	-0.1	1.5
3/10/2019	19:54:30	38.2825	-108.9060	-2.0	3.5	0.1	1.8
3/10/2019	20:44:45	38.2860	-108.8986	-2.0	3.5	0.2	1.2
3/10/2019	21:52:42	38.2914	-108.9125	-2.8	4.3	-0.3	1.6
3/10/2019	21:58:57	38.2817	-108.9092	-2.4	3.9	-0.6	2.1
3/10/2019	22:18:03	38.2834	-108.9056	-2.0	3.5	-0.5	1.7
3/10/2019	22:59:57	38.2915	-108.9123	-2.8	4.3	0.3	1.6
3/11/2019	0:45:02	38.2858	-108.8987	-2.0	3.5	-0.1	1.2
3/11/2019	0:49:43	38.2851	-108.8976	-2.3	3.8	-0.2	1.3
3/11/2019	1:06:40	38.2823	-108.9056	-2.0	3.6	-0.6	1.8
3/11/2019	1:06:49	38.2824	-108.9056	-2.0	3.5	-0.5	1.8
3/11/2019	1:38:43	38.2856	-108.8991	-2.0	3.5	-0.4	1.3
3/11/2019	2:14:38	38.2806	-108.9091	-2.2	3.7	0.0	2.2
3/11/2019	2:28:44	38.2805	-108.9089	-1.9	3.4	-0.2	2.2
3/11/2019	2:33:17	38.2853	-108.9007	-2.0	3.5	0.1	1.3
3/11/2019	3:04:13	38.2815	-108.9065	-2.1	3.6	0.9	1.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/11/2019	3:26:22	38.2821	-108.9073	-2.0	3.5	-0.2	1.9
3/11/2019	4:05:18	38.2839	-108.9016	-2.3	3.8	-0.2	1.5
3/11/2019	4:33:41	38.2805	-108.9063	-2.0	3.5	-0.5	2.0
3/11/2019	5:14:56	38.2816	-108.9047	-2.3	3.9	-0.2	1.9
3/11/2019	5:46:19	38.2802	-108.9077	-2.0	3.5	0.2	2.1
3/11/2019	5:55:37	38.2821	-108.9078	-2.1	3.6	-0.6	2.0
3/11/2019	6:06:34	38.2795	-108.9002	-2.8	4.3	0.5	1.9
3/11/2019	6:07:03	38.2826	-108.9041	-2.2	3.7	-0.9	1.7
3/11/2019	6:17:25	38.2801	-108.9075	-2.0	3.6	0.0	2.1
3/11/2019	6:38:47	38.2845	-108.8996	-2.3	3.8	0.6	1.4
3/11/2019	7:51:31	38.2824	-108.9065	-2.0	3.6	0.1	1.9
3/11/2019	8:00:55	38.2824	-108.9054	-2.3	3.9	-0.1	1.8
3/11/2019	8:37:16	38.2822	-108.9043	-2.3	3.8	-1.0	1.8
3/11/2019	8:47:42	38.2821	-108.9045	-2.4	3.9	2.3	1.8
3/11/2019	10:19:50	38.2826	-108.9042	-2.3	3.8	0.1	1.7
3/11/2019	10:39:42	38.2908	-108.9127	-2.8	4.3	-0.9	1.7
3/11/2019	10:39:44	38.2908	-108.9127	-2.7	4.3	0.8	1.7
3/11/2019	10:40:22	38.2908	-108.9128	-2.7	4.2	-0.5	1.7
3/11/2019	11:14:32	38.2792	-108.9006	-2.9	4.4	2.6	2.0
3/11/2019	12:33:28	38.2843	-108.8939	-2.5	4.0	-0.6	1.4
3/11/2019	15:40:57	38.2824	-108.9070	-2.3	3.8	-0.4	1.9
3/11/2019	15:41:36	38.2859	-108.8981	-2.0	3.5	-1.1	1.2
3/11/2019	15:54:11	38.2841	-108.8921	-2.6	4.2	-0.3	1.4
3/11/2019	16:16:52	38.2816	-108.9043	-2.3	3.9	-0.1	1.8
3/11/2019	16:17:57	38.2770	-108.9220	-1.5	3.1	-0.7	3.2
3/11/2019	18:22:17	38.2809	-108.9064	-2.3	3.8	1.7	2.0
3/11/2019	19:55:48	38.2828	-108.9068	-2.0	3.5	-0.6	1.8
3/11/2019	20:11:17	38.2831	-108.8916	-2.8	4.3	-1.0	1.5
3/11/2019	20:50:51	38.2832	-108.9046	-2.0	3.5	0.3	1.7
3/11/2019	21:06:28	38.2832	-108.9047	-2.0	3.6	1.8	1.7
3/12/2019	0:17:42	38.2802	-108.9085	-2.4	3.9	-0.7	2.2
3/12/2019	0:17:56	38.2827	-108.9058	-2.1	3.6	0.1	1.8
3/12/2019	1:32:51	38.2788	-108.9019	-2.7	4.2	0.1	2.1
3/12/2019	2:13:27	38.2820	-108.9017	-2.6	4.1	1.0	1.7
3/12/2019	2:46:21	38.2858	-108.8984	-2.0	3.5	-0.2	1.2
3/12/2019	4:10:24	38.2833	-108.9047	-2.0	3.5	0.3	1.7
3/12/2019	4:16:16	38.2822	-108.9079	-2.0	3.5	-0.1	2.0
3/12/2019	4:58:06	38.2827	-108.9057	-2.1	3.6	-0.1	1.8
3/12/2019	4:58:14	38.2827	-108.9058	-2.1	3.6	-0.8	1.8
3/12/2019	4:59:50	38.3053	-108.9173	-2.9	4.5	-0.2	2.2
3/12/2019	6:29:30	38.2829	-108.9051	-2.3	3.9	0.5	1.8

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
3/12/2019	7:29:19	38.2856	-108.8987	-2.0	3.5	-0.3	1.3
3/12/2019	8:49:52	38.2829	-108.9035	-2.4	3.9	1.7	1.7
3/12/2019	11:15:37	38.2830	-108.9073	-2.2	3.7	1.9	1.8
3/12/2019	11:20:11	38.2804	-108.9065	-2.3	3.8	0.5	2.1
3/12/2019	11:25:12	38.2833	-108.9037	-1.8	3.4	-0.6	1.7
3/12/2019	12:29:27	38.2820	-108.9045	-2.1	3.6	-0.1	1.8
3/12/2019	14:18:59	38.2823	-108.9052	-2.0	3.5	-0.3	1.8
3/12/2019	16:28:17	38.2841	-108.9026	-2.0	3.5	-0.3	1.5
3/12/2019	19:22:02	38.2824	-108.9063	-2.0	3.6	-0.5	1.9
3/12/2019	19:44:35	38.2816	-108.9074	-2.0	3.5	-0.5	2.0
3/12/2019	19:46:13	38.2853	-108.9038	-2.3	3.8	-0.6	1.5
3/12/2019	20:01:40	38.2826	-108.9064	-2.0	3.5	0.1	1.8
3/12/2019	23:28:45	38.2821	-108.9013	-2.6	4.2	0.2	1.7
3/13/2019	2:50:00	38.2778	-108.9218	-1.5	3.0	-0.7	3.1
3/13/2019	3:05:00	38.2824	-108.9064	-2.0	3.5	-0.2	1.9
3/13/2019	3:22:26	38.2845	-108.8991	-2.3	3.8	0.5	1.4
3/13/2019	3:27:16	38.2774	-108.9227	-1.4	2.9	0.1	3.2
3/13/2019	3:41:32	38.2823	-108.9068	-2.1	3.6	1.3	1.9
3/13/2019	4:18:25	38.2773	-108.9230	-1.4	2.9	0.4	3.3
3/13/2019	4:29:30	38.2773	-108.9230	-1.4	3.0	-0.6	3.2
3/13/2019	4:30:41	38.2773	-108.9230	-1.4	3.0	-1.0	3.3
3/13/2019	5:01:23	38.2823	-108.9069	-2.0	3.6	-0.7	1.9
3/13/2019	5:08:09	38.2823	-108.8967	-2.8	4.3	2.7	1.6
3/13/2019	5:23:51	38.2829	-108.8974	-2.6	4.1	0.7	1.5
3/13/2019	6:10:42	38.4053	-109.0037	-1.9	3.4	0.2	15.4
3/13/2019	8:15:48	38.2818	-108.9040	-2.3	3.9	-0.5	1.8
3/13/2019	8:40:40	38.2822	-108.9077	-2.0	3.5	-0.3	1.9
3/13/2019	11:19:37	38.2853	-108.8975	-2.3	3.8	-0.1	1.3
3/13/2019	11:58:21	38.2774	-108.9228	-1.4	2.9	-0.5	3.2
3/13/2019	12:47:27	38.2858	-108.8968	-2.3	3.8	2.4	1.2
3/13/2019	13:00:14	38.2855	-108.8990	-2.0	3.5	-0.3	1.3
3/13/2019	13:11:37	38.2812	-108.9068	-2.0	3.5	-0.2	2.0
3/13/2019	16:18:54	38.2794	-108.9006	-2.8	4.4	0.1	2.0
3/13/2019	16:41:34	38.2807	-108.9047	-2.4	3.9	0.8	2.0
3/13/2019	17:45:56	38.2807	-108.9082	-2.3	3.8	-0.5	2.1
3/13/2019	18:56:04	38.2873	-108.9002	-2.1	3.6	-0.4	1.1
3/13/2019	20:08:53	38.2852	-108.8999	-2.0	3.5	0.1	1.3
3/13/2019	20:17:54	38.2813	-108.9061	-2.2	3.8	0.2	1.9
3/13/2019	23:34:21	38.2783	-108.9217	-1.3	2.9	-0.7	3.1
3/14/2019	2:51:12	38.2843	-108.8883	-2.5	4.0	-0.3	1.5
3/14/2019	2:53:55	38.2821	-108.9075	-2.1	3.6	-0.2	1.9
3/14/2019	5:03:06	38.2802	-108.8955	-3.3	4.8	-0.6	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/14/2019	7:15:03	38.2823	-108.9050	-2.3	3.9	0.6	1.8
3/14/2019	9:28:38	38.2823	-108.9052	-2.0	3.5	-0.3	1.8
3/14/2019	12:55:32	38.2820	-108.9079	-2.0	3.5	-0.3	2.0
3/14/2019	13:01:54	38.2829	-108.9039	-2.1	3.7	-0.4	1.7
3/14/2019	13:48:53	38.2787	-108.8995	-3.5	5.1	-0.3	2.0
3/14/2019	15:01:11	38.2821	-108.9079	-2.1	3.6	-0.2	2.0
3/14/2019	15:08:27	38.2830	-108.9092	-2.0	3.5	-0.7	1.9
3/14/2019	15:22:37	38.2849	-108.8990	-2.3	3.8	-0.2	1.3
3/14/2019	16:11:57	38.2821	-108.9076	-2.0	3.6	-0.4	1.9
3/14/2019	16:12:15	38.2862	-108.8930	-2.2	3.7	-0.4	1.2
3/14/2019	17:36:10	38.2826	-108.9061	-2.0	3.5	-0.4	1.8
3/14/2019	20:14:36	38.2819	-108.9038	-2.4	3.9	1.8	1.8
3/14/2019	22:30:18	38.2820	-108.9112	-0.3	1.8	-0.5	2.1
3/15/2019	1:30:19	38.2785	-108.9016	-2.7	4.2	0.1	2.1
3/15/2019	4:32:12	38.2822	-108.9084	-2.1	3.6	-0.2	2.0
3/15/2019	4:55:18	38.2823	-108.9082	-2.1	3.6	-0.3	2.0
3/15/2019	5:53:41	38.2825	-108.9046	-2.3	3.8	-0.3	1.8
3/15/2019	6:38:15	38.2824	-108.9062	-2.0	3.6	0.1	1.9
3/15/2019	10:40:31	38.2828	-108.9048	-2.1	3.6	-0.5	1.7
3/15/2019	10:56:54	38.2838	-108.8968	-2.5	4.0	0.4	1.4
3/15/2019	11:43:43	38.2829	-108.9050	-2.1	3.6	1.2	1.8
3/15/2019	13:38:26	38.2822	-108.9049	-2.3	3.9	1.5	1.8
3/15/2019	14:40:06	38.2821	-108.9083	-1.9	3.5	0.1	2.0
3/15/2019	14:59:22	38.2820	-108.9078	-2.1	3.6	-0.1	2.0
3/15/2019	16:20:29	38.2823	-108.9038	-2.4	3.9	0.6	1.8
3/15/2019	18:32:48	38.2796	-108.9007	-2.8	4.4	-0.2	1.9
3/15/2019	19:46:06	38.2765	-108.9200	-1.8	3.4	-1.3	3.1
3/15/2019	19:46:23	38.2781	-108.9210	-1.4	2.9	-0.3	3.1
3/15/2019	21:01:54	38.2763	-108.9267	-1.4	3.0	-0.1	3.6
3/15/2019	21:05:00	38.2831	-108.9056	-2.0	3.6	0.3	1.8
3/15/2019	21:07:41	38.2830	-108.9053	-2.0	3.5	-0.9	1.8
3/15/2019	21:19:29	38.2830	-108.9052	-2.0	3.5	1.2	1.7
3/15/2019	22:24:25	38.2857	-108.8984	-2.0	3.5	-0.2	1.2
3/15/2019	23:03:11	38.2854	-108.8998	-2.0	3.5	-0.2	1.3
3/16/2019	0:57:56	38.2828	-108.9064	-2.0	3.5	-1.8	1.8
3/16/2019	0:57:58	38.2828	-108.9063	-2.0	3.5	-0.3	1.8
3/16/2019	2:50:08	38.2826	-108.9057	-2.1	3.6	-0.4	1.8
3/16/2019	3:44:16	38.2827	-108.9062	-2.0	3.5	-0.3	1.8
3/16/2019	5:34:50	38.2826	-108.9059	-2.1	3.6	-0.5	1.8
3/16/2019	5:46:22	38.2828	-108.9061	-2.0	3.5	-1.5	1.8
3/16/2019	5:46:24	38.2828	-108.9062	-2.0	3.5	-0.9	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/16/2019	5:46:28	38.2828	-108.9060	-2.0	3.5	-0.4	1.8
3/16/2019	5:46:34	38.2827	-108.9063	-2.0	3.5	-0.8	1.8
3/16/2019	6:31:31	38.2820	-108.9086	-1.9	3.5	0.2	2.0
3/16/2019	8:00:32	38.2769	-108.9248	-1.5	3.0	0.1	3.4
3/16/2019	8:55:16	38.2829	-108.9051	-2.1	3.6	-0.4	1.8
3/16/2019	9:51:01	38.2769	-108.9248	-1.5	3.0	-0.3	3.4
3/16/2019	9:58:14	38.2856	-108.8988	-2.0	3.5	-0.3	1.3
3/16/2019	9:59:08	38.2768	-108.9250	-1.5	3.0	-0.9	3.4
3/16/2019	11:08:48	38.2861	-108.8949	-2.2	3.7	-0.4	1.2
3/16/2019	11:43:34	38.2816	-108.9016	-2.7	4.2	-0.7	1.8
3/16/2019	12:02:16	38.2857	-108.8919	-2.1	3.6	-0.2	1.2
3/16/2019	12:46:17	38.2858	-108.8975	-2.3	3.8	-0.1	1.2
3/16/2019	12:56:24	38.2839	-108.8988	-3.3	4.8	-0.6	1.4
3/16/2019	13:46:40	38.2824	-108.9052	-2.3	3.8	1.7	1.8
3/16/2019	14:32:10	38.2821	-108.9054	-2.3	3.8	0.1	1.8
3/16/2019	20:46:28	38.2821	-108.9077	-2.0	3.5	0.5	2.0
3/16/2019	20:58:25	38.2828	-108.9045	-2.1	3.6	-0.5	1.7
3/16/2019	22:01:47	38.2829	-108.9047	-2.2	3.8	0.2	1.7
3/16/2019	22:39:09	38.2842	-108.8922	-2.6	4.1	0.6	1.4
3/16/2019	23:12:09	38.2821	-108.9076	-2.1	3.6	0.1	1.9
3/16/2019	23:58:35	38.2829	-108.9043	-2.1	3.6	-0.2	1.7
3/17/2019	0:06:30	38.2807	-108.9133	-1.6	3.1	-0.2	2.4
3/17/2019	0:33:55	38.2835	-108.9070	-2.1	3.6	-0.9	1.8
3/17/2019	4:17:12	38.2841	-108.8923	-2.6	4.2	-0.3	1.4
3/17/2019	7:13:01	38.2707	-108.8955	0.0	1.5	-0.4	2.9
3/17/2019	7:41:43	38.2854	-108.9002	-2.0	3.5	0.4	1.3
3/17/2019	8:20:25	38.2796	-108.9020	-2.9	4.4	-0.1	2.0
3/17/2019	10:22:58	38.2855	-108.8999	-2.0	3.5	-0.6	1.3
3/17/2019	13:39:40	38.2823	-108.9062	-2.0	3.6	-0.3	1.9
3/17/2019	13:43:48	38.2830	-108.9054	-2.0	3.5	-0.4	1.8
3/17/2019	14:46:47	38.2854	-108.8982	-2.3	3.9	0.8	1.3
3/17/2019	17:34:13	38.2821	-108.9079	-2.1	3.6	-0.4	2.0
3/17/2019	18:03:29	38.2852	-108.9001	-2.0	3.5	-0.3	1.3
3/17/2019	19:58:48	38.2846	-108.8956	-2.3	3.8	0.7	1.3
3/17/2019	21:35:09	38.2821	-108.9070	-2.1	3.6	-0.6	1.9
3/17/2019	21:43:01	38.2829	-108.8987	-2.8	4.3	0.0	1.6
3/17/2019	21:48:57	38.2845	-108.9021	-2.0	3.5	0.2	1.5
3/18/2019	0:31:21	38.2836	-108.8997	-2.5	4.0	-0.3	1.5
3/18/2019	1:28:19	38.2827	-108.9058	-2.2	3.8	0.2	1.8
3/18/2019	1:42:00	38.2824	-108.9065	-2.0	3.5	-0.6	1.9
3/18/2019	3:29:11	38.2826	-108.9060	-2.1	3.6	-0.5	1.8
3/18/2019	6:13:34	38.2795	-108.9069	-2.6	4.1	0.1	2.2

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/18/2019	10:21:11	38.2852	-108.9082	-2.1	3.6	0.2	1.7
3/18/2019	10:32:34	38.2856	-108.8990	-2.0	3.5	-0.3	1.3
3/18/2019	11:44:18	38.2853	-108.8990	-2.0	3.5	-0.1	1.3
3/18/2019	13:13:24	38.2858	-108.8968	-2.3	3.9	0.1	1.2
3/18/2019	15:29:54	38.2853	-108.8998	-2.0	3.5	-0.2	1.3
3/18/2019	17:05:57	38.2816	-108.9051	-2.4	3.9	-0.3	1.9
3/18/2019	17:51:30	38.2848	-108.8983	-2.0	3.5	-0.5	1.3
3/19/2019	0:36:26	38.2820	-108.9078	-2.1	3.6	-0.8	2.0
3/19/2019	7:21:32	38.2826	-108.9067	-2.4	3.9	-0.3	1.9
3/19/2019	10:35:21	38.2812	-108.9065	-2.3	3.8	0.4	2.0
3/19/2019	11:54:08	38.2821	-108.9078	-2.0	3.5	-0.3	2.0
3/19/2019	12:09:13	38.2821	-108.9082	-2.0	3.5	-0.1	2.0
3/19/2019	13:12:16	38.2852	-108.9082	-2.0	3.6	-0.2	1.7
3/19/2019	14:04:38	38.2821	-108.9053	-2.1	3.6	-0.1	1.8
3/19/2019	14:19:32	38.2842	-108.8917	-2.6	4.2	-0.7	1.4
3/19/2019	15:12:19	38.2844	-108.9015	-2.1	3.6	-0.2	1.5
3/19/2019	20:08:24	38.2841	-108.8955	-2.5	4.0	0.1	1.4
3/19/2019	21:37:58	38.2827	-108.9040	-2.3	3.9	-0.4	1.7
3/19/2019	21:45:51	38.2820	-108.9078	-2.1	3.6	-0.3	2.0
3/20/2019	3:28:00	38.2823	-108.9067	-2.0	3.6	0.3	1.9
3/20/2019	6:17:16	38.2821	-108.9047	-2.3	3.8	-0.2	1.8
3/20/2019	6:56:33	38.2852	-108.9007	-2.0	3.5	-0.2	1.4
3/20/2019	7:25:57	38.2854	-108.8998	-2.0	3.5	0.2	1.3
3/20/2019	8:26:15	38.2845	-108.8932	-2.5	4.0	0.6	1.3
3/20/2019	11:14:16	38.2852	-108.8998	-2.0	3.6	-0.3	1.3
3/20/2019	11:17:32	38.2829	-108.9056	-2.0	3.5	-0.2	1.8
3/20/2019	11:25:46	38.2822	-108.9056	-2.1	3.6	0.1	1.8
3/20/2019	11:58:04	38.2846	-108.8903	-2.4	4.0	0.5	1.4
3/20/2019	13:00:14	38.2862	-108.8932	-2.2	3.7	0.1	1.2
3/20/2019	13:02:33	38.2862	-108.8933	-2.2	3.7	0.1	1.2
3/20/2019	15:02:39	38.2809	-108.9048	-2.5	4.0	0.2	1.9
3/20/2019	16:27:17	38.2821	-108.9044	-2.1	3.6	-0.4	1.8
3/20/2019	17:30:42	38.2852	-108.8927	-2.3	3.9	1.6	1.3
3/20/2019	17:44:17	38.2861	-108.9027	-1.8	3.3	-0.5	1.3
3/20/2019	18:16:48	38.2822	-108.9072	-2.1	3.6	-0.4	1.9
3/20/2019	18:21:04	38.2832	-108.9053	-2.1	3.6	-0.8	1.7
3/20/2019	19:38:22	38.2788	-108.9010	-2.9	4.5	-0.2	2.0
3/20/2019	20:30:27	38.2807	-108.9081	-2.3	3.8	0.6	2.1
3/20/2019	23:00:27	38.2813	-108.9105	-2.0	3.6	-0.3	2.2
3/21/2019	9:40:17	38.2822	-108.9061	-2.0	3.6	-0.5	1.9
3/21/2019	11:17:37	38.2859	-108.9028	-1.8	3.3	-0.6	1.4

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/21/2019	14:21:07	38.3322	-108.7669	-4.8	6.3	0.5	11.9
3/21/2019	14:50:54	38.2844	-108.9021	-2.0	3.5	-0.4	1.5
3/21/2019	20:16:58	38.2821	-108.9082	-2.0	3.5	-0.6	2.0
3/21/2019	20:42:08	38.2826	-108.9059	-2.1	3.6	-0.9	1.8
3/21/2019	20:44:39	38.2826	-108.9060	-2.1	3.6	-0.1	1.8
3/21/2019	23:26:33	38.2822	-108.9047	-2.1	3.6	-0.4	1.8
3/22/2019	1:55:53	38.2855	-108.8989	-2.0	3.5	-0.7	1.3
3/22/2019	3:28:00	38.2822	-108.9080	-2.0	3.5	-0.5	2.0
3/22/2019	6:40:01	38.2848	-108.8991	-2.3	3.8	0.3	1.3
3/22/2019	7:15:09	38.2820	-108.9078	-2.1	3.6	-0.1	2.0
3/22/2019	7:40:36	38.2807	-108.9091	-2.2	3.7	0.3	2.2
3/22/2019	7:41:57	38.2862	-108.8991	-2.2	3.7	-0.4	1.2
3/22/2019	7:45:20	38.2807	-108.9093	-2.2	3.7	-0.3	2.2
3/22/2019	8:06:12	38.2854	-108.8982	-2.3	3.9	0.5	1.3
3/22/2019	9:48:52	38.2855	-108.8990	-2.0	3.5	-0.6	1.3
3/22/2019	14:31:57	38.2822	-108.9082	-2.0	3.5	-0.5	2.0
3/22/2019	15:13:31	38.2822	-108.9074	-2.1	3.6	0.1	1.9
3/22/2019	15:25:32	38.2883	-108.8967	-1.9	3.4	-0.8	0.9
3/22/2019	15:42:32	38.2822	-108.9076	-2.1	3.6	-0.5	1.9
3/22/2019	18:51:22	38.2855	-108.8998	-2.0	3.5	-0.3	1.3
3/22/2019	18:52:30	38.2822	-108.8995	-1.0	2.5	-1.1	1.6
3/22/2019	23:18:51	38.2829	-108.9045	-2.3	3.9	-0.5	1.7
3/23/2019	1:18:08	38.2832	-108.9041	-2.1	3.6	0.1	1.7
3/23/2019	6:13:58	38.2821	-108.9075	-2.0	3.5	-0.1	1.9
3/23/2019	6:57:33	38.2823	-108.9084	-2.0	3.6	-0.5	2.0
3/23/2019	7:31:52	38.2821	-108.9044	-2.1	3.6	-0.4	1.8
3/23/2019	12:19:14	38.3322	-108.7669	-4.8	6.3	1.5	11.9
3/23/2019	12:46:11	38.2824	-108.9142	-1.6	3.2	-0.1	2.3
3/23/2019	12:47:51	38.2853	-108.9008	-2.0	3.5	-0.8	1.4
3/23/2019	14:23:46	38.2821	-108.9132	-1.7	3.2	-0.2	2.3
3/23/2019	17:54:12	38.2848	-108.8979	-3.1	4.6	-0.4	1.3
3/23/2019	20:22:44	38.2845	-108.8965	-2.2	3.8	-0.1	1.3
3/23/2019	21:07:59	38.2822	-108.9052	-2.0	3.6	-0.4	1.8
3/23/2019	22:07:27	38.2819	-108.9047	-2.4	3.9	-0.2	1.8
3/23/2019	22:42:37	38.2822	-108.9071	-2.1	3.6	-0.9	1.9
3/23/2019	22:42:51	38.2822	-108.9071	-2.1	3.6	-0.8	1.9
3/23/2019	22:59:48	38.2853	-108.8978	-2.3	3.8	0.4	1.3
3/24/2019	0:06:28	38.2823	-108.9052	-2.0	3.5	0.9	1.8
3/24/2019	1:50:36	38.2825	-108.9051	-2.3	3.8	-0.3	1.8
3/24/2019	1:53:06	38.2805	-108.9063	-2.3	3.8	-0.5	2.0
3/24/2019	7:50:41	38.2850	-108.9007	-2.3	3.9	0.5	1.4
3/24/2019	10:53:17	38.2839	-108.9028	-2.1	3.6	0.5	1.6

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/25/2019	0:16:43	38.2771	-108.9247	-1.5	3.0	-0.1	3.4
3/25/2019	1:36:51	38.2827	-108.9058	-2.2	3.8	-0.3	1.8
3/25/2019	2:29:49	38.2838	-108.8956	-2.5	4.0	0.4	1.4
3/25/2019	3:54:27	38.2824	-108.9064	-2.3	3.8	1.8	1.9
3/25/2019	4:05:09	38.4727	-108.9625	-4.9	6.4	0.8	20.4
3/25/2019	5:52:44	38.2827	-108.9068	-2.0	3.6	0.1	1.9
3/25/2019	5:59:18	38.2823	-108.9068	-2.0	3.5	-0.2	1.9
3/25/2019	8:01:03	38.2824	-108.9057	-2.0	3.5	1.0	1.8
3/25/2019	8:26:03	38.2702	-108.8903	-0.6	2.1	-0.4	3.0
3/25/2019	8:40:46	38.2797	-108.9075	-2.3	3.8	-0.3	2.2
3/25/2019	10:31:31	38.2837	-108.8992	-2.5	4.0	0.1	1.5
3/25/2019	10:54:46	38.2828	-108.9063	-2.0	3.5	0.4	1.8
3/25/2019	11:55:12	38.2862	-108.8971	-2.0	3.5	0.1	1.2
3/25/2019	12:47:59	38.2895	-108.9123	-2.7	4.2	-0.1	1.7
3/25/2019	18:53:55	38.2828	-108.9061	-2.0	3.5	0.1	1.8
3/25/2019	18:54:13	38.2828	-108.9062	-2.0	3.5	-0.8	1.8
3/25/2019	18:54:49	38.2828	-108.9062	-2.0	3.5	-0.6	1.8
3/25/2019	19:17:46	38.2873	-108.9042	-1.3	2.8	-1.3	1.3
3/25/2019	21:15:59	38.2854	-108.8991	-2.0	3.5	-0.7	1.3
3/25/2019	22:46:33	38.2862	-108.8970	-2.0	3.5	0.6	1.2
3/26/2019	2:02:35	38.2825	-108.9060	-2.0	3.5	-0.1	1.8
3/26/2019	2:19:48	38.2828	-108.9062	-2.0	3.5	-0.4	1.8
3/26/2019	2:20:10	38.2828	-108.9062	-2.0	3.5	-1.2	1.8
3/26/2019	2:28:31	38.2827	-108.9057	-2.2	3.7	0.1	1.8
3/26/2019	3:24:29	38.2827	-108.9058	-2.1	3.6	0.1	1.8
3/26/2019	3:25:03	38.2825	-108.9061	-2.0	3.5	-0.3	1.8
3/26/2019	3:25:28	38.2852	-108.9042	-2.0	3.6	-1.1	1.5
3/26/2019	3:25:40	38.2828	-108.9059	-2.1	3.6	-1.0	1.8
3/26/2019	4:00:41	38.2840	-108.8933	-2.6	4.1	0.1	1.4
3/26/2019	4:25:23	38.2825	-108.9063	-2.1	3.6	0.7	1.8
3/26/2019	4:33:37	38.2827	-108.9062	-2.0	3.6	-0.5	1.8
3/26/2019	8:48:37	38.2825	-108.9063	-2.0	3.6	-0.3	1.8
3/26/2019	15:22:32	38.2905	-108.9112	-2.7	4.3	-0.1	1.6
3/26/2019	16:31:34	38.2821	-108.9076	-2.1	3.6	-0.1	1.9
3/26/2019	17:52:05	38.2860	-108.8965	-2.0	3.5	-0.1	1.2
3/26/2019	19:41:00	38.2809	-108.9074	-2.3	3.8	0.7	2.0
3/26/2019	20:48:19	38.2860	-108.8996	-2.0	3.5	-0.6	1.2
3/26/2019	20:52:48	38.2858	-108.8982	-2.0	3.5	-0.3	1.2
3/26/2019	21:20:40	38.2853	-108.9032	-1.4	3.0	-0.8	1.4
3/27/2019	2:58:34	38.2828	-108.9056	-2.2	3.8	-0.9	1.8
3/27/2019	3:07:42	38.2852	-108.9077	-2.2	3.7	0.7	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/27/2019	3:24:13	38.2822	-108.9070	-2.0	3.5	0.1	1.9
3/27/2019	7:07:28	38.2815	-108.9047	-2.3	3.9	1.7	1.9
3/27/2019	7:17:48	38.2822	-108.9072	-2.0	3.5	0.0	1.9
3/27/2019	7:38:19	38.2846	-108.9020	-2.1	3.6	-0.2	1.5
3/27/2019	8:59:50	38.2824	-108.9055	-2.0	3.5	-0.1	1.8
3/27/2019	11:00:37	38.2861	-108.8773	-2.3	3.8	-0.2	1.9
3/27/2019	12:06:27	38.2834	-108.9032	-2.2	3.7	-0.5	1.6
3/27/2019	15:05:24	38.2820	-108.9139	-1.7	3.2	-0.1	2.3
3/27/2019	16:03:15	38.2822	-108.9077	-2.0	3.5	-0.5	1.9
3/27/2019	16:10:28	38.2825	-108.9058	-2.3	3.9	-0.9	1.8
3/27/2019	17:09:55	38.2860	-108.8980	-2.3	3.8	0.4	1.2
3/27/2019	19:48:34	38.2825	-108.9060	-2.0	3.5	0.6	1.8
3/27/2019	21:50:26	38.2836	-108.9046	-1.9	3.5	-0.1	1.7
3/27/2019	22:46:17	38.2834	-108.9040	-2.2	3.7	-0.5	1.7
3/27/2019	23:20:24	38.2860	-108.8950	-2.2	3.7	0.1	1.2
3/28/2019	1:38:10	38.2822	-108.9074	-2.0	3.5	-0.3	1.9
3/28/2019	5:43:11	38.2774	-108.9134	-2.6	4.1	-0.9	2.7
3/28/2019	8:47:20	38.2825	-108.9059	-2.0	3.5	-0.1	1.8
3/28/2019	8:47:52	38.2825	-108.9060	-2.0	3.5	-1.1	1.8
3/28/2019	8:49:10	38.2826	-108.9061	-2.0	3.5	0.7	1.8
3/28/2019	8:50:44	38.2826	-108.9061	-2.0	3.5	-0.1	1.8
3/28/2019	13:45:20	38.2821	-108.9045	-2.1	3.6	-0.3	1.8
3/28/2019	15:00:02	38.2822	-108.9071	-2.0	3.6	-0.3	1.9
3/28/2019	16:00:14	38.2819	-108.9041	-2.0	3.6	-0.7	1.8
3/28/2019	18:47:19	38.2813	-108.9083	-2.3	3.8	0.1	2.1
3/28/2019	21:59:14	38.2847	-108.8887	-3.1	4.6	-0.5	1.4
3/29/2019	2:31:15	38.2819	-108.9139	-1.7	3.2	0.3	2.3
3/29/2019	15:03:47	38.2856	-108.8991	-2.0	3.5	-0.8	1.3
3/29/2019	15:31:32	38.2820	-108.9042	-2.1	3.6	-0.3	1.8
3/30/2019	0:56:02	38.2857	-108.8999	-2.0	3.5	-0.1	1.3
3/30/2019	1:04:29	38.2831	-108.9048	-2.0	3.5	-0.4	1.7
3/30/2019	1:05:23	38.2832	-108.9047	-2.0	3.5	0.1	1.7
3/30/2019	1:30:24	38.2832	-108.9048	-2.0	3.5	-0.1	1.7
3/30/2019	1:34:47	38.2827	-108.9058	-2.2	3.7	-0.6	1.8
3/30/2019	2:27:55	38.2832	-108.9048	-2.0	3.5	-0.2	1.7
3/30/2019	4:24:53	38.2817	-108.9063	-2.1	3.6	0.5	1.9
3/30/2019	7:33:32	38.2829	-108.9054	-2.0	3.5	0.5	1.8
3/30/2019	8:05:13	38.2792	-108.8981	-3.1	4.7	0.2	1.9
3/30/2019	8:06:16	38.2829	-108.9056	-2.0	3.5	-0.4	1.8
3/30/2019	8:24:23	38.2828	-108.9052	-2.2	3.7	-0.3	1.8
3/30/2019	10:32:43	38.2837	-108.9041	-2.0	3.5	-0.2	1.6
3/30/2019	12:11:00	38.2821	-108.9076	-2.0	3.5	0.2	1.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
3/30/2019	15:31:38	38.2849	-108.8943	-2.3	3.8	-0.3	1.3
3/30/2019	16:15:07	38.2820	-108.9044	-2.1	3.6	-0.6	1.8
3/30/2019	17:46:57	38.2833	-108.9059	-1.9	3.5	0.0	1.7
3/31/2019	1:38:58	38.2821	-108.9052	-2.1	3.6	-0.1	1.8
3/31/2019	2:52:33	38.2863	-108.8975	-2.0	3.6	-1.5	1.2
3/31/2019	3:15:10	38.2828	-108.9070	-2.0	3.5	-0.4	1.9
3/31/2019	5:00:52	38.3102	-108.9703	-2.0	3.5	0.5	6.8
3/31/2019	9:11:55	38.2824	-108.9040	-2.4	3.9	0.7	1.8
3/31/2019	12:39:53	38.2822	-108.9071	-2.1	3.6	-0.6	1.9
3/31/2019	12:41:19	38.2822	-108.9071	-2.1	3.6	-0.3	1.9
3/31/2019	12:42:16	38.2825	-108.9042	-2.1	3.6	-1.1	1.8
3/31/2019	13:06:44	38.2857	-108.8988	-2.0	3.5	0.0	1.2
3/31/2019	13:08:01	38.2815	-108.9079	-2.4	3.9	-1.5	2.0
3/31/2019	13:08:55	38.2823	-108.9069	-2.1	3.6	-1.1	1.9
3/31/2019	13:09:06	38.2821	-108.9071	-2.1	3.6	-1.3	1.9
3/31/2019	13:58:08	38.2841	-108.8986	-2.5	4.0	0.2	1.4
3/31/2019	14:46:36	38.2821	-108.9077	-2.1	3.6	-0.5	2.0
3/31/2019	15:14:44	38.2821	-108.9045	-2.0	3.6	-0.3	1.8
3/31/2019	15:36:23	38.2809	-108.9152	-1.4	2.9	-0.8	2.5
4/1/2019	3:15:21	38.2859	-108.8982	-2.0	3.5	0.1	1.2
4/1/2019	6:06:24	38.2859	-108.8982	-2.0	3.5	0.5	1.2
4/1/2019	6:39:24	38.2820	-108.9041	-2.0	3.6	-0.5	1.8
4/1/2019	12:53:31	38.2856	-108.8987	-2.0	3.5	-0.1	1.3
4/1/2019	16:22:54	38.2821	-108.9076	-2.0	3.6	-0.2	1.9
4/1/2019	16:43:53	38.2822	-108.9054	-2.1	3.6	0.0	1.8
4/1/2019	16:52:43	38.2821	-108.9075	-2.0	3.6	-0.1	1.9
4/1/2019	16:55:09	38.2824	-108.9050	-2.3	3.8	0.7	1.8
4/1/2019	16:55:58	38.2821	-108.9074	-2.0	3.6	0.4	1.9
4/1/2019	18:03:35	38.2827	-108.9052	-2.2	3.7	-0.2	1.8
4/1/2019	18:06:53	38.2913	-108.9270	-1.3	2.8	-0.3	2.9
4/2/2019	1:25:50	38.2833	-108.9075	-2.2	3.7	-1.1	1.8
4/2/2019	7:25:02	38.2821	-108.9045	-2.1	3.6	-0.6	1.8
4/2/2019	8:12:09	38.2821	-108.9075	-2.0	3.5	0.1	1.9
4/2/2019	8:20:50	38.2812	-108.9102	-1.9	3.4	-0.1	2.2
4/2/2019	9:23:25	38.2818	-108.9055	-2.3	3.9	0.5	1.9
4/2/2019	9:48:28	38.2820	-108.9078	-2.0	3.6	0.1	2.0
4/2/2019	12:59:53	38.2820	-108.9079	-2.0	3.5	-0.5	2.0
4/2/2019	13:30:52	38.2703	-108.9328	-0.4	1.9	-0.1	4.4
4/2/2019	17:45:16	38.2845	-108.8954	-2.2	3.7	-1.1	1.3
4/2/2019	18:40:07	38.2854	-108.8988	-2.0	3.5	0.2	1.3
4/3/2019	3:20:04	38.2824	-108.9060	-2.1	3.6	-0.3	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
4/3/2019	4:02:19	38.2845	-108.8956	-2.0	3.6	-0.1	1.3
4/3/2019	5:54:06	38.2776	-108.9135	-2.6	4.1	2.7	2.7
4/3/2019	6:02:06	38.2821	-108.9082	-1.9	3.5	-0.5	2.0
4/3/2019	10:18:40	38.2779	-108.9146	-2.5	4.0	0.4	2.7
4/3/2019	20:12:21	38.2829	-108.9028	-2.4	4.0	0.1	1.7
4/4/2019	2:37:30	38.2774	-108.9136	-2.6	4.1	0.4	2.7
4/4/2019	4:20:55	38.2822	-108.9072	-2.2	3.7	-0.6	1.9
4/4/2019	4:21:22	38.2822	-108.9070	-2.2	3.7	-0.4	1.9
4/4/2019	13:11:32	38.2835	-108.9022	-2.3	3.9	0.5	1.6
4/4/2019	16:31:09	38.2830	-108.9052	-2.0	3.5	-0.1	1.8
4/4/2019	21:41:51	38.2820	-108.9041	-2.0	3.5	-0.9	1.8
4/5/2019	7:13:06	38.2908	-108.9248	-1.8	3.3	-0.1	2.7
4/5/2019	7:18:31	38.2854	-108.9078	-2.1	3.6	1.3	1.7
4/5/2019	8:15:06	38.2853	-108.9078	-2.1	3.6	-0.4	1.7
4/5/2019	8:17:31	38.2853	-108.9076	-2.1	3.7	0.4	1.7
4/5/2019	10:02:51	38.2807	-108.9081	-2.3	3.8	-0.2	2.1
4/5/2019	11:53:59	38.2807	-108.9080	-2.3	3.8	0.1	2.1
4/5/2019	12:51:28	38.2778	-108.9134	-2.5	4.0	0.9	2.6
4/5/2019	14:47:14	38.2841	-108.9022	-2.1	3.7	-0.9	1.5
4/5/2019	14:48:00	38.2840	-108.9023	-1.9	3.4	-1.5	1.5
4/5/2019	15:25:52	38.2838	-108.8997	-2.5	4.0	-0.1	1.5
4/6/2019	1:26:52	38.2853	-108.9079	-2.1	3.6	1.1	1.7
4/6/2019	3:23:02	38.2829	-108.9045	-2.2	3.8	0.3	1.7
4/6/2019	5:46:05	38.2826	-108.9058	-1.9	3.4	0.3	1.8
4/6/2019	5:55:40	38.2877	-108.9093	-4.2	5.7	-0.6	1.6
4/6/2019	7:39:23	38.2828	-108.8970	-2.6	4.1	0.7	1.5
4/6/2019	9:18:01	38.2814	-108.9101	-1.8	3.4	0.2	2.1
4/6/2019	10:04:57	38.2845	-108.8969	-2.3	3.8	-0.7	1.3
4/6/2019	10:23:51	38.2856	-108.9076	-2.1	3.6	1.4	1.6
4/6/2019	10:37:04	38.2862	-108.8970	-2.0	3.5	-0.1	1.2
4/6/2019	11:52:02	38.2828	-108.9064	-2.0	3.5	0.1	1.8
4/6/2019	11:52:20	38.2830	-108.9042	-2.2	3.7	-1.0	1.7
4/6/2019	11:52:24	38.2838	-108.9065	-2.3	3.8	-1.5	1.7
4/6/2019	11:52:34	38.2823	-108.9053	-2.0	3.5	-1.4	1.8
4/6/2019	11:53:35	38.2940	-108.9078	-3.0	4.5	-0.8	1.2
4/6/2019	13:31:54	38.2828	-108.9062	-2.0	3.5	0.1	1.8
4/6/2019	13:32:18	38.2835	-108.9067	-2.1	3.6	-0.9	1.8
4/6/2019	15:44:15	38.2821	-108.9046	-2.0	3.6	0.2	1.8
4/6/2019	17:14:29	38.2781	-108.9149	-2.4	4.0	-0.4	2.7
4/6/2019	20:41:21	38.2827	-108.9098	1.9	-0.3	0.2	2.0
4/6/2019	21:11:53	38.2812	-108.9103	-1.9	3.4	0.1	2.2
4/7/2019	1:44:47	38.2827	-108.9058	-2.2	3.7	0.1	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
4/7/2019	2:55:50	38.2822	-108.9044	-2.0	3.6	-0.2	1.8
4/7/2019	14:31:15	38.2828	-108.9068	-2.0	3.5	0.1	1.8
4/7/2019	20:48:59	38.2841	-108.8986	-3.3	4.8	0.1	1.4
4/7/2019	22:33:19	38.2797	-108.9076	-2.5	4.0	0.1	2.2
4/8/2019	1:10:37	38.2850	-108.9035	-1.6	3.2	-1.3	1.5
4/8/2019	1:46:02	38.2856	-108.8984	-2.0	3.5	-0.2	1.2
4/8/2019	5:05:53	38.2852	-108.9000	-2.0	3.5	-0.6	1.3
4/8/2019	11:21:17	38.2824	-108.9064	-2.0	3.5	0.1	1.9
4/8/2019	11:41:42	38.2809	-108.9074	-2.3	3.8	0.6	2.0
4/8/2019	21:15:56	38.2821	-108.9076	-2.0	3.5	-0.5	1.9
4/9/2019	1:45:59	38.2826	-108.9037	-2.3	3.9	0.2	1.7
4/9/2019	2:06:04	38.2823	-108.9059	-2.3	3.8	0.2	1.8
4/9/2019	5:54:41	38.2827	-108.9065	-2.0	3.5	0.2	1.8
4/9/2019	6:07:33	38.2827	-108.9064	-2.0	3.5	0.1	1.8
4/9/2019	9:18:15	38.2826	-108.9046	-2.3	3.9	0.4	1.8
4/9/2019	10:33:00	38.2845	-108.8971	-2.3	3.8	0.3	1.3
4/9/2019	12:19:40	38.2824	-108.9059	-2.3	3.8	0.7	1.8
4/9/2019	14:14:24	38.2830	-108.9100	-1.9	3.4	-0.6	2.0
4/9/2019	14:29:03	38.2837	-108.9046	-2.0	3.6	-1.1	1.7
4/9/2019	14:59:03	38.2822	-108.9082	-2.0	3.5	-0.4	2.0
4/9/2019	16:58:27	38.2822	-108.9079	-2.0	3.5	-0.3	2.0
4/9/2019	18:05:11	38.2821	-108.9081	-2.0	3.5	0.4	2.0
4/9/2019	18:07:40	38.2781	-108.9136	-2.4	3.9	0.2	2.6
4/9/2019	18:30:33	38.2833	-108.9082	-2.0	3.5	-0.1	1.9
4/9/2019	21:22:44	38.2857	-108.8975	-2.3	3.8	-0.3	1.2
4/10/2019	0:17:41	38.2821	-108.9086	-2.0	3.5	-1.1	2.0
4/10/2019	1:47:26	38.2842	-108.9082	-2.2	3.7	-0.3	1.8
4/10/2019	4:29:19	38.2820	-108.9087	-2.0	3.5	-0.2	2.0
4/10/2019	5:58:26	38.2820	-108.9085	-1.9	3.5	-0.1	2.0
4/10/2019	8:16:04	38.2821	-108.9081	-1.9	3.5	-0.3	2.0
4/10/2019	8:38:11	38.2829	-108.9056	-2.0	3.5	1.0	1.8
4/10/2019	9:35:21	38.2821	-108.9082	-2.0	3.5	-0.1	2.0
4/10/2019	9:37:37	38.2820	-108.9075	-1.2	2.7	-1.1	2.0
4/10/2019	16:31:26	38.2806	-108.9076	-2.2	3.8	0.0	2.1
4/10/2019	21:55:25	38.2782	-108.9142	-2.4	3.9	0.3	2.6
4/11/2019	1:32:30	38.2832	-108.9045	-2.0	3.5	0.1	1.7
4/11/2019	3:31:15	38.2844	-108.9018	-2.0	3.5	-0.4	1.5
4/11/2019	8:08:39	38.2822	-108.9073	-2.1	3.6	0.5	1.9
4/11/2019	10:28:50	38.4091	-108.9368	-4.1	5.6	1.3	13.0
4/11/2019	12:17:54	38.2826	-108.9062	-2.0	3.5	0.1	1.8
4/11/2019	17:02:39	38.2826	-108.9061	-2.0	3.5	-0.1	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
4/11/2019	17:09:11	38.2824	-108.9058	-2.1	3.6	0.4	1.8
4/11/2019	20:16:45	38.2821	-108.9015	-2.6	4.2	0.0	1.7
4/11/2019	20:19:48	38.2854	-108.9000	-2.0	3.5	-0.7	1.3
4/11/2019	20:50:24	38.2809	-108.9092	-2.2	3.7	-0.3	2.1
4/11/2019	23:25:55	38.2809	-108.9092	-2.3	3.8	-0.7	2.1
4/12/2019	7:32:26	38.2860	-108.8964	-1.9	3.4	-0.2	1.2
4/12/2019	9:01:26	38.2821	-108.9074	-2.0	3.5	-0.3	1.9
4/12/2019	10:55:18	38.2822	-108.9077	-2.0	3.5	-0.1	1.9
4/12/2019	13:17:45	38.2821	-108.9072	-2.0	3.6	0.3	1.9
4/12/2019	14:35:39	38.2820	-108.9039	-2.3	3.8	1.4	1.8
4/12/2019	17:46:47	38.2827	-108.9034	-2.4	3.9	0.2	1.7
4/12/2019	20:26:46	38.4430	-108.9655	-3.3	4.8	0.3	17.4
4/12/2019	21:17:52	38.2821	-108.9082	-1.9	3.5	-0.3	2.0
4/12/2019	23:09:42	38.2822	-108.9073	-2.0	3.5	0.1	1.9
4/12/2019	23:45:49	38.2835	-108.9038	0.0	1.6	-0.5	1.6
4/13/2019	2:34:46	38.2851	-108.9085	-2.1	3.6	-0.3	1.7
4/13/2019	7:31:52	38.2820	-108.9077	-2.1	3.6	-0.1	2.0
4/13/2019	7:49:35	38.2821	-108.9039	-2.3	3.8	0.0	1.8
4/13/2019	18:30:33	38.2829	-108.9047	-2.2	3.8	-0.3	1.7
4/14/2019	3:39:15	38.2809	-108.9093	-2.2	3.7	-0.7	2.1
4/14/2019	5:44:20	38.2834	-108.9049	-1.9	3.5	0.0	1.7
4/14/2019	8:51:37	38.2855	-108.8970	-2.1	3.6	-0.4	1.2
4/14/2019	10:11:07	38.2844	-108.8942	-2.5	4.0	-0.2	1.4
4/14/2019	10:11:52	38.2841	-108.9025	-2.1	3.6	-0.7	1.5
4/14/2019	11:31:18	38.2820	-108.9041	-2.1	3.6	-0.2	1.8
4/14/2019	17:59:55	38.2819	-108.9043	-2.1	3.6	-0.3	1.8
4/14/2019	18:03:07	38.2822	-108.9070	-2.3	3.8	-0.1	1.9
4/15/2019	10:29:21	38.2852	-108.9011	-2.0	3.5	-0.6	1.4
4/16/2019	0:05:46	38.2812	-108.9070	-2.3	3.8	-0.2	2.0
4/16/2019	3:43:40	38.2856	-108.9073	-2.1	3.6	0.0	1.6
4/16/2019	4:07:53	38.2834	-108.9039	-2.1	3.6	0.3	1.7
4/16/2019	9:38:58	38.2737	-108.9203	-1.1	2.6	-0.3	3.4
4/16/2019	23:37:58	38.2827	-108.9056	-2.1	3.6	-0.4	1.8
4/17/2019	1:08:45	38.2827	-108.9057	-2.0	3.6	-0.4	1.8
4/17/2019	3:38:16	38.2790	-108.9014	-3.0	4.5	0.2	2.0
4/17/2019	9:43:50	38.2830	-108.9043	-2.2	3.8	-0.2	1.7
4/17/2019	17:27:56	38.2860	-108.8995	-3.9	5.4	-0.6	1.2
4/18/2019	5:45:07	38.2779	-108.9142	-2.7	4.2	-1.1	2.7
4/18/2019	5:56:59	38.2788	-108.9057	-2.7	4.2	3.0	2.2
4/18/2019	20:36:08	38.2859	-108.8983	-2.0	3.5	0.1	1.2
4/18/2019	20:40:13	38.2830	-108.9047	-2.1	3.6	-0.2	1.7
4/18/2019	22:06:13	38.2832	-108.9040	-2.1	3.6	0.4	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
4/19/2019	3:19:06	38.2852	-108.9002	-2.0	3.5	-0.1	1.3
4/19/2019	5:15:48	38.2807	-108.9081	-2.2	3.7	-0.7	2.1
4/19/2019	9:25:28	38.2827	-108.9049	-2.2	3.7	-0.5	1.8
4/19/2019	9:54:51	38.2838	-108.9036	-2.0	3.5	-0.5	1.6
4/19/2019	12:06:37	38.2827	-108.9052	-2.3	3.9	1.2	1.8
4/19/2019	12:44:06	38.2824	-108.9054	-2.0	3.5	0.0	1.8
4/19/2019	21:24:47	38.2828	-108.9083	-2.0	3.5	-0.5	1.9
4/19/2019	21:52:42	38.2822	-108.9079	-2.0	3.5	-0.7	2.0
4/20/2019	0:24:51	38.2820	-108.9083	-1.9	3.4	-0.6	2.0
4/20/2019	0:33:52	38.3443	-108.8777	-3.2	4.7	-0.4	5.5
4/20/2019	8:20:05	38.2854	-108.8996	-2.1	3.6	-0.1	1.3
4/20/2019	12:25:42	38.2820	-108.9079	-2.1	3.6	-0.9	2.0
4/20/2019	14:10:59	38.2823	-108.9084	-2.0	3.6	1.3	2.0
4/20/2019	16:28:23	38.2824	-108.9069	-2.0	3.5	-0.6	1.9
4/20/2019	18:13:59	38.2823	-108.9070	-2.0	3.6	1.5	1.9
4/20/2019	18:23:57	38.2821	-108.9076	-2.0	3.5	0.2	1.9
4/20/2019	18:45:16	38.2821	-108.9078	-2.0	3.5	-0.4	2.0
4/20/2019	20:00:46	38.2842	-108.9026	-2.0	3.5	-0.1	1.5
4/20/2019	20:03:29	38.2856	-108.8987	-2.3	3.8	0.5	1.3
4/21/2019	3:39:28	38.2821	-108.9075	-2.0	3.6	-0.4	1.9
4/21/2019	3:40:29	38.2828	-108.9058	-2.2	3.7	-0.5	1.8
4/21/2019	3:56:04	38.2826	-108.9057	-2.2	3.7	0.0	1.8
4/21/2019	9:09:47	38.2796	-108.9071	-2.5	4.0	0.1	2.2
4/21/2019	10:28:36	38.2825	-108.9065	-2.0	3.6	1.5	1.9
4/21/2019	11:14:51	38.2826	-108.9064	-2.0	3.5	0.5	1.8
4/21/2019	12:21:55	38.2822	-108.9071	-2.0	3.6	-0.4	1.9
4/21/2019	15:47:28	38.2815	-108.9131	-1.7	3.2	0.0	2.3
4/22/2019	2:05:34	38.2801	-108.9016	-2.9	4.4	0.1	1.9
4/22/2019	2:14:54	38.2822	-108.9069	-2.1	3.6	-0.3	1.9
4/22/2019	8:31:27	38.2799	-108.9072	-2.3	3.8	-0.4	2.1
4/22/2019	14:06:47	38.2791	-108.9039	-2.6	4.1	0.7	2.1
4/22/2019	14:34:44	38.2821	-108.9039	-2.3	3.8	-0.5	1.8
4/22/2019	15:05:37	38.2812	-108.9062	-2.2	3.7	-0.5	2.0
4/22/2019	17:46:49	38.2822	-108.9040	-2.3	3.8	0.5	1.8
4/22/2019	17:49:23	38.2847	-108.8989	-2.3	3.8	-0.3	1.4
4/22/2019	17:55:26	38.2826	-108.9047	-2.1	3.6	-0.4	1.8
4/22/2019	20:29:10	38.2830	-108.9039	-2.2	3.7	-0.7	1.7
4/22/2019	23:02:44	38.2849	-108.9009	-2.1	3.7	0.4	1.4
4/23/2019	1:03:16	38.2765	-108.8672	-2.3	3.8	-0.3	3.3
4/23/2019	11:34:05	38.2984	-108.9317	-2.7	4.2	-1.5	3.2
4/23/2019	11:34:09	38.2823	-108.9082	-2.1	3.6	-0.3	2.0

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
4/23/2019	12:48:19	38.2857	-108.8976	-2.0	3.5	0.1	1.2
4/23/2019	12:50:47	38.2823	-108.9068	-2.1	3.6	-1.2	1.9
4/23/2019	12:59:56	38.2830	-108.9041	-2.2	3.8	0.1	1.7
4/23/2019	13:28:13	38.2755	-108.9307	-1.7	3.2	-1.0	3.9
4/23/2019	18:09:41	38.2846	-108.8963	-3.1	4.6	-0.1	1.3
4/23/2019	19:56:32	38.2827	-108.9046	-2.3	3.8	-0.2	1.8
4/23/2019	20:44:15	38.2794	-108.9032	-2.9	4.4	2.4	2.0
4/24/2019	6:02:44	38.2825	-108.9059	-2.1	3.6	-0.2	1.8
4/24/2019	7:27:16	38.2822	-108.9066	-2.3	3.8	0.1	1.9
4/24/2019	8:58:10	38.2832	-108.9047	-2.0	3.5	-0.3	1.7
4/24/2019	9:19:34	38.2831	-108.9048	-2.0	3.5	-0.4	1.7
4/25/2019	2:05:49	38.2829	-108.9051	-2.1	3.6	0.5	1.8
4/25/2019	2:06:07	38.2829	-108.9049	-2.1	3.6	-0.3	1.7
4/25/2019	2:20:17	38.2829	-108.9052	-2.0	3.6	0.3	1.8
4/25/2019	2:21:38	38.2847	-108.8964	-3.1	4.6	-0.3	1.3
4/25/2019	3:32:16	38.2830	-108.9054	-2.0	3.6	-1.2	1.8
4/25/2019	3:32:18	38.2830	-108.9054	-2.0	3.5	0.3	1.8
4/25/2019	6:47:18	38.2830	-108.9052	-2.0	3.5	0.1	1.7
4/25/2019	6:47:35	38.2830	-108.9053	-2.0	3.5	-0.5	1.8
4/25/2019	6:51:31	38.2830	-108.9051	-2.0	3.5	0.8	1.7
4/25/2019	7:03:19	38.2829	-108.9044	-2.2	3.8	-0.2	1.7
4/25/2019	9:04:28	38.2821	-108.9080	-2.0	3.5	0.1	2.0
4/25/2019	9:04:34	38.2823	-108.9045	-1.7	3.3	-1.0	1.8
4/25/2019	9:46:28	38.2822	-108.9079	-2.0	3.5	0.3	2.0
4/25/2019	15:34:16	38.2822	-108.9070	-2.1	3.6	0.1	1.9
4/25/2019	21:30:57	38.2856	-108.8990	-2.0	3.5	-0.3	1.3
4/26/2019	2:03:38	38.2839	-108.9031	-2.0	3.6	-0.3	1.6
4/26/2019	2:30:44	38.2821	-108.9075	-2.1	3.6	0.1	1.9
4/26/2019	9:15:01	38.2846	-108.8828	-2.2	3.7	-0.5	1.7
4/26/2019	10:30:01	38.2822	-108.9071	-2.1	3.6	-0.5	1.9
4/26/2019	12:07:38	38.2770	-108.9249	-1.5	3.0	-0.1	3.4
4/26/2019	17:55:53	38.2821	-108.9078	-2.1	3.6	-0.5	2.0
4/27/2019	3:52:14	38.2834	-108.9038	-2.1	3.6	0.6	1.6
4/28/2019	9:50:42	38.2809	-108.9071	-2.3	3.8	-0.6	2.0
4/28/2019	23:32:38	38.2840	-108.8930	-2.6	4.1	0.7	1.4
4/28/2019	23:33:16	38.2855	-108.8870	-2.6	4.2	-0.5	1.4
4/29/2019	0:46:37	38.2835	-108.9048	-2.0	3.5	-0.1	1.7
4/29/2019	1:01:19	38.2851	-108.9005	-2.1	3.7	-0.2	1.4
4/29/2019	13:24:57	38.2822	-108.9051	-2.4	3.9	-0.2	1.8
4/30/2019	2:19:30	38.2859	-108.8980	-2.0	3.5	-0.1	1.2
4/30/2019	2:20:18	38.2845	-108.8997	-2.3	3.8	1.0	1.4
4/30/2019	7:31:11	38.2858	-108.8982	-2.0	3.5	-0.2	1.2

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
4/30/2019	8:34:06	38.2790	-108.9017	-3.0	4.5	0.0	2.0
4/30/2019	13:20:50	38.2829	-108.9048	-2.2	3.7	-0.5	1.7
4/30/2019	20:23:21	38.2851	-108.9004	-2.1	3.7	-0.5	1.4
5/1/2019	5:06:55	38.2822	-108.9081	-2.0	3.5	-0.2	2.0
5/1/2019	11:21:33	38.2833	-108.9060	-1.9	3.4	-0.1	1.8
5/1/2019	13:12:23	38.2821	-108.9078	-2.0	3.6	-0.2	2.0
5/1/2019	13:22:09	38.2821	-108.9078	-2.1	3.6	-0.3	2.0
5/1/2019	19:27:18	38.2821	-108.9080	-2.1	3.6	-0.1	2.0
5/1/2019	19:30:07	38.2821	-108.9081	-2.1	3.6	-0.1	2.0
5/2/2019	1:16:18	38.2809	-108.9072	-2.3	3.8	0.1	2.0
5/2/2019	2:24:02	38.2850	-108.8915	-2.4	3.9	0.9	1.3
5/2/2019	19:05:11	38.2807	-108.9090	-2.2	3.7	-0.1	2.1
5/2/2019	19:13:02	38.2823	-108.9074	-2.1	3.6	-0.8	1.9
5/2/2019	19:35:12	38.2822	-108.9074	-2.1	3.6	0.5	1.9
5/3/2019	0:02:57	38.2828	-108.9082	-1.8	3.4	-0.6	1.9
5/4/2019	2:31:54	38.2822	-108.9059	-2.1	3.6	0.0	1.9
5/4/2019	2:54:51	38.2853	-108.8999	-2.0	3.5	0.0	1.3
5/4/2019	3:05:05	38.2773	-108.9147	-2.7	4.2	0.0	2.7
5/4/2019	3:33:31	38.2827	-108.9058	-2.2	3.8	-0.3	1.8
5/4/2019	5:41:42	38.2829	-108.9042	-2.3	3.8	-0.1	1.7
5/4/2019	5:58:10	38.2830	-108.9044	-2.2	3.8	0.8	1.7
5/4/2019	7:17:19	38.2830	-108.9042	-2.2	3.7	-0.2	1.7
5/4/2019	7:20:39	38.2830	-108.9041	-2.2	3.7	0.5	1.7
5/4/2019	7:25:20	38.2846	-108.8946	-2.3	3.8	0.5	1.3
5/4/2019	8:17:11	38.2822	-108.9039	-2.4	3.9	0.3	1.8
5/4/2019	12:22:41	38.2803	-108.9070	-2.3	3.8	1.2	2.1
5/5/2019	2:09:47	38.2821	-108.9083	-2.0	3.5	1.0	2.0
5/5/2019	5:56:42	38.4108	-108.9357	-4.1	5.7	0.1	13.2
5/5/2019	7:41:48	38.2852	-108.8999	-2.1	3.6	-0.1	1.3
5/5/2019	9:02:59	38.2827	-108.9074	-2.0	3.5	-0.4	1.9
5/5/2019	17:04:35	38.2780	-108.9139	-2.4	3.9	0.1	2.6
5/6/2019	12:19:12	38.2848	-108.9011	-2.2	3.7	0.6	1.4
5/8/2019	7:34:04	38.2825	-108.9063	-2.3	3.8	1.3	1.8
5/8/2019	10:39:21	38.2824	-108.9059	-2.1	3.6	0.4	1.8
5/8/2019	13:24:55	38.2829	-108.9060	-2.0	3.5	0.4	1.8
5/8/2019	13:35:43	38.2828	-108.9061	-2.0	3.5	0.2	1.8
5/8/2019	13:36:33	38.2830	-108.9072	-2.2	3.7	-1.2	1.8
5/8/2019	13:37:13	38.2828	-108.9061	-2.0	3.5	-0.4	1.8
5/8/2019	18:09:57	38.2824	-108.9060	-2.1	3.6	-0.3	1.8
5/8/2019	22:40:00	38.2823	-108.9062	-2.1	3.6	-0.7	1.9
5/9/2019	3:32:30	38.4440	-108.9520	-1.4	2.9	0.3	17.1

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
5/9/2019	3:48:59	38.2823	-108.9051	-2.4	3.9	-0.1	1.8
5/9/2019	5:08:42	38.2822	-108.9051	-2.0	3.6	0.8	1.8
5/9/2019	7:22:32	38.2821	-108.9044	-2.1	3.6	-0.5	1.8
5/9/2019	8:29:04	38.2824	-108.9054	-2.0	3.6	-0.1	1.8
5/9/2019	10:36:36	38.2831	-108.9054	-2.0	3.5	-0.3	1.8
5/9/2019	13:24:49	38.2814	-108.9101	-1.8	3.4	-0.4	2.1
5/9/2019	14:32:39	38.2820	-108.9040	-2.0	3.6	-0.7	1.8
5/9/2019	15:13:52	38.2852	-108.9013	-2.0	3.6	-1.5	1.4
5/10/2019	0:57:10	38.2843	-108.9027	-2.0	3.5	-0.5	1.5
5/10/2019	2:56:51	38.2821	-108.9089	-2.0	3.5	-0.5	2.0
5/10/2019	6:40:39	38.2804	-108.9102	-1.9	3.4	0.0	2.2
5/10/2019	11:56:17	38.2826	-108.9050	-2.1	3.6	-0.1	1.8
5/10/2019	20:28:22	38.2828	-108.9054	-2.2	3.7	-0.7	1.8
5/11/2019	0:19:47	38.2822	-108.9081	-1.9	3.5	0.0	2.0
5/11/2019	2:57:26	38.2836	-108.9039	-2.0	3.5	-0.2	1.6
5/11/2019	9:50:27	38.2823	-108.9070	-2.0	3.5	-0.4	1.9
5/11/2019	19:15:04	38.2821	-108.9076	-2.0	3.5	0.2	1.9
5/11/2019	19:30:58	38.2822	-108.9075	-2.0	3.5	-0.4	1.9
5/11/2019	20:48:03	38.2855	-108.8992	-2.0	3.5	-0.4	1.3
5/12/2019	0:01:10	38.2830	-108.9041	-2.1	3.6	-0.1	1.7
5/12/2019	16:47:59	38.2822	-108.9074	-2.0	3.6	0.7	1.9
5/12/2019	17:14:24	38.2834	-108.9058	-1.9	3.4	-0.1	1.7
5/12/2019	17:14:24	38.2834	-108.9058	-1.9	3.4	-0.1	1.7
5/12/2019	18:32:09	38.2821	-108.9076	-2.0	3.6	0.0	1.9
5/13/2019	2:11:18	38.2826	-108.9059	-1.9	3.5	-0.2	1.8
5/13/2019	2:39:04	38.2839	-108.9031	-2.0	3.5	0.6	1.6
5/13/2019	9:05:06	38.2821	-108.9074	-2.1	3.6	-0.2	1.9
5/13/2019	9:10:38	38.2822	-108.9073	-2.1	3.6	0.0	1.9
5/13/2019	10:40:26	38.2852	-108.9006	-2.1	3.6	-0.6	1.3
5/13/2019	15:19:34	38.2848	-108.8949	-2.2	3.8	-0.1	1.3
5/14/2019	13:21:31	38.2838	-108.8937	-2.6	4.2	0.8	1.4
5/15/2019	5:34:34	38.2827	-108.9065	-2.0	3.5	0.2	1.8
5/15/2019	17:39:45	38.2835	-108.9057	-2.0	3.5	-0.5	1.7
5/18/2019	2:04:40	38.2828	-108.9046	-2.3	3.9	-0.1	1.7
5/18/2019	3:00:21	38.2858	-108.8983	-2.0	3.5	-0.2	1.2
5/18/2019	4:15:47	38.2824	-108.9055	-2.0	3.6	-0.3	1.8
5/18/2019	6:51:19	38.2743	-108.9292	-0.9	2.4	-0.2	3.9
5/18/2019	16:12:56	38.2821	-108.9049	-2.2	3.8	-0.3	1.8
5/18/2019	18:22:58	38.2830	-108.9043	-2.2	3.8	-0.5	1.7
5/18/2019	22:17:52	38.2833	-108.9057	-1.9	3.5	-0.5	1.7
5/19/2019	11:51:31	38.2826	-108.9061	-2.0	3.5	0.1	1.8
5/19/2019	15:21:36	38.2841	-108.8919	-2.7	4.2	-0.2	1.4

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
5/19/2019	15:22:39	38.2842	-108.8916	-2.7	4.2	-0.7	1.4
5/19/2019	16:34:03	38.2672	-108.8803	-0.9	2.4	-1.1	3.5
5/19/2019	21:02:47	38.2735	-108.9095	-2.8	4.3	-1.2	2.9
5/20/2019	8:42:29	38.2824	-108.9064	-2.2	3.7	0.4	1.9
5/20/2019	9:38:55	38.2857	-108.8985	-2.2	3.8	1.0	1.2
5/20/2019	13:39:31	38.2822	-108.9055	-2.1	3.6	-0.7	1.8
5/20/2019	16:32:34	38.2842	-108.9029	-2.0	3.5	-1.3	1.5
5/20/2019	19:34:35	38.2823	-108.9045	-2.3	3.8	-0.1	1.8
5/21/2019	3:28:20	38.2831	-108.9036	-2.2	3.7	-0.3	1.7
5/21/2019	7:30:50	38.2818	-108.9044	-2.4	3.9	-0.6	1.8
5/21/2019	11:43:27	38.2828	-108.9062	-2.0	3.5	-0.3	1.8
5/21/2019	11:43:29	38.2828	-108.9063	-2.0	3.5	-0.2	1.8
5/21/2019	12:20:58	38.2832	-108.8942	-2.7	4.3	0.7	1.5
5/21/2019	13:26:18	38.2829	-108.9050	-2.0	3.6	-0.6	1.7
5/21/2019	14:52:42	38.2829	-108.9061	-2.2	3.7	-0.2	1.8
5/21/2019	18:25:03	38.2827	-108.9063	-2.0	3.5	0.6	1.8
5/21/2019	18:55:44	38.2831	-108.9066	-1.9	3.4	-0.3	1.8
5/21/2019	18:56:24	38.2831	-108.9067	-1.9	3.4	-0.8	1.8
5/21/2019	19:06:12	38.2831	-108.9066	-1.9	3.4	-0.3	1.8
5/23/2019	8:40:00	38.2830	-108.9045	-2.3	3.8	-0.8	1.7
5/23/2019	8:51:40	38.2829	-108.9044	-2.1	3.6	-0.7	1.7
5/23/2019	12:40:05	38.2823	-108.9052	-2.0	3.5	0.9	1.8
5/23/2019	15:38:05	38.2833	-108.9047	-2.0	3.6	-0.9	1.7
5/23/2019	20:28:48	38.2815	-108.9030	-1.2	2.7	-1.0	1.8
5/24/2019	1:50:02	38.2810	-108.9076	-2.2	3.8	-0.7	2.1
5/24/2019	2:33:56	38.2846	-108.8992	-2.3	3.9	-0.5	1.4
5/24/2019	2:47:19	38.2858	-108.8985	-2.0	3.5	-0.5	1.2
5/24/2019	4:02:45	38.2827	-108.9058	-2.2	3.8	-0.5	1.8
5/24/2019	6:18:12	38.2859	-108.8983	-2.0	3.5	-0.6	1.2
5/24/2019	6:57:50	38.2698	-108.9300	-0.1	1.6	0.1	4.3
5/24/2019	9:35:38	38.2821	-108.9081	-2.0	3.5	-0.5	2.0
5/24/2019	10:18:38	38.2808	-108.9123	-1.8	3.3	0.2	2.3
5/24/2019	10:44:21	38.2822	-108.9079	-2.0	3.5	-0.4	2.0
5/24/2019	21:31:22	38.2855	-108.8991	-2.0	3.5	0.0	1.3
5/24/2019	23:45:07	38.2830	-108.9047	-2.2	3.8	-0.5	1.7
5/25/2019	0:40:08	38.2821	-108.9075	-2.0	3.6	-0.5	1.9
5/25/2019	6:05:30	38.2826	-108.9064	-2.3	3.8	1.2	1.8
5/25/2019	7:55:16	38.2846	-108.9023	-2.0	3.5	-0.7	1.5
5/25/2019	8:36:52	38.2822	-108.9074	-2.1	3.6	0.2	1.9
5/25/2019	9:15:52	38.2821	-108.9060	-2.1	3.6	1.1	1.9
5/26/2019	10:12:48	38.2827	-108.9042	-2.2	3.7	-0.5	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
5/26/2019	11:45:37	38.2825	-108.9058	-2.1	3.6	0.3	1.8
5/26/2019	16:31:26	38.2826	-108.9062	-2.0	3.5	-0.6	1.8
5/27/2019	13:36:12	38.3521	-108.8803	-5.3	6.8	-0.3	6.3
5/27/2019	17:45:07	38.3043	-108.8775	0.7	0.8	-0.2	1.8
5/28/2019	15:56:47	38.2827	-108.9058	-2.2	3.7	0.7	1.8
5/28/2019	19:15:17	38.2841	-108.9025	-2.0	3.6	-0.2	1.5
5/29/2019	1:13:23	38.2818	-108.9091	-1.9	3.4	-0.4	2.1
5/29/2019	1:20:13	38.2823	-108.9067	-2.0	3.5	-0.5	1.9
5/29/2019	2:32:43	38.2823	-108.9068	-2.0	3.6	-0.4	1.9
5/29/2019	2:57:15	38.2859	-108.9075	-2.0	3.5	-0.5	1.6
5/29/2019	3:38:15	38.2825	-108.9063	-2.3	3.8	2.1	1.9
5/29/2019	3:51:56	38.2825	-108.9066	-2.3	3.9	0.2	1.9
5/29/2019	6:51:10	38.2823	-108.9065	-2.3	3.9	-0.1	1.9
5/29/2019	8:43:13	38.2827	-108.9061	-2.0	3.5	-0.4	1.8
5/29/2019	11:14:30	38.2827	-108.9064	-2.3	3.8	0.2	1.8
5/29/2019	12:59:08	38.2849	-108.8987	-2.3	3.8	0.1	1.3
5/29/2019	21:52:57	38.2855	-108.8991	-2.0	3.5	-0.2	1.3
5/30/2019	23:04:39	38.2838	-108.9034	-2.0	3.5	-0.7	1.6
5/31/2019	13:58:27	38.2821	-108.9080	-2.1	3.6	-0.5	2.0
5/31/2019	22:50:24	38.2829	-108.9046	-2.3	3.8	-0.5	1.7
6/1/2019	1:50:06	38.2830	-108.9077	-2.2	3.7	0.4	1.9
6/1/2019	3:43:59	38.2830	-108.9078	-2.2	3.7	0.9	1.9
6/1/2019	9:31:38	38.2825	-108.9052	-2.1	3.6	-0.2	1.8
6/1/2019	17:01:48	38.2825	-108.9060	-2.1	3.6	-0.7	1.8
6/1/2019	18:32:51	38.2847	-108.8996	-2.3	3.8	0.1	1.4
6/2/2019	2:03:06	38.2843	-108.9020	-2.1	3.6	-0.2	1.5
6/2/2019	7:19:18	38.2826	-108.9056	-2.2	3.8	0.1	1.8
6/3/2019	4:35:01	38.2825	-108.9060	-2.0	3.5	-0.4	1.8
6/4/2019	15:57:10	38.2841	-108.9027	-2.0	3.5	-0.4	1.5
6/4/2019	19:27:00	38.2832	-108.9046	-2.0	3.5	0.3	1.7
6/4/2019	19:30:20	38.2830	-108.9042	-2.2	3.8	-0.3	1.7
6/5/2019	0:12:17	38.2815	-108.9070	-2.0	3.5	-0.1	2.0
6/6/2019	2:21:40	38.2822	-108.9091	-2.0	3.5	0.0	2.0
6/6/2019	8:56:16	38.2822	-108.9048	-2.3	3.8	-0.6	1.8
6/7/2019	7:11:43	38.2824	-108.9056	-2.0	3.6	-0.4	1.8
6/8/2019	7:05:07	38.2835	-108.9044	-2.0	3.5	-0.7	1.7
6/9/2019	1:02:09	38.2824	-108.9038	-2.3	3.9	-0.4	1.7
6/9/2019	12:12:33	38.2850	-108.9008	-2.1	3.6	-0.1	1.4
6/9/2019	14:05:00	38.2821	-108.9061	-2.1	3.6	-0.7	1.9
6/9/2019	22:04:51	38.2824	-108.9058	-2.0	3.5	0.5	1.8
6/10/2019	0:59:37	38.2826	-108.9061	-2.0	3.5	0.0	1.8
6/10/2019	5:10:48	38.2825	-108.9048	-2.2	3.7	-0.4	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
6/10/2019	5:39:14	38.2823	-108.9048	-2.2	3.7	-0.8	1.8
6/10/2019	7:56:38	38.2854	-108.9003	-2.1	3.6	-0.1	1.3
6/10/2019	18:34:17	38.2829	-108.9046	-2.3	3.8	2.6	1.7
6/10/2019	18:39:19	38.2827	-108.9044	-2.3	3.9	1.1	1.7
6/10/2019	18:46:08	38.2826	-108.9057	-2.1	3.7	-1.0	1.8
6/10/2019	18:46:38	38.2831	-108.9039	-2.2	3.7	-1.0	1.7
6/10/2019	18:50:52	38.2831	-108.9037	-2.3	3.8	-0.1	1.7
6/10/2019	23:04:35	38.2830	-108.9050	-2.0	3.5	-0.5	1.7
6/11/2019	3:51:39	38.2830	-108.9052	-2.0	3.5	-0.4	1.8
6/11/2019	3:52:22	38.2829	-108.9053	-2.0	3.5	-1.1	1.8
6/11/2019	5:04:11	38.2822	-108.9077	-2.0	3.5	-0.3	1.9
6/11/2019	5:56:09	38.2830	-108.9049	-2.0	3.6	-0.3	1.7
6/11/2019	5:58:55	38.2831	-108.9049	-2.0	3.5	0.3	1.7
6/11/2019	6:00:18	38.2832	-108.9048	-2.0	3.5	1.6	1.7
6/11/2019	6:07:59	38.2831	-108.9051	-2.0	3.5	0.4	1.7
6/11/2019	6:08:07	38.2829	-108.9053	-2.0	3.5	-1.1	1.8
6/11/2019	6:08:24	38.2842	-108.9038	-2.3	3.8	-1.1	1.6
6/11/2019	6:08:38	38.2830	-108.9053	-2.0	3.6	0.2	1.8
6/11/2019	6:16:35	38.2830	-108.9051	-2.1	3.6	1.7	1.7
6/11/2019	6:25:07	38.2829	-108.9055	-2.0	3.5	0.3	1.8
6/11/2019	6:28:28	38.2828	-108.9056	-2.1	3.6	0.8	1.8
6/11/2019	6:38:42	38.2833	-108.9043	-2.0	3.5	0.4	1.7
6/11/2019	6:39:04	38.2832	-108.9043	-2.0	3.6	-1.3	1.7
6/11/2019	6:39:30	38.2833	-108.9043	-2.0	3.6	0.1	1.7
6/11/2019	6:45:31	38.2833	-108.9045	-2.0	3.5	0.7	1.7
6/11/2019	6:46:35	38.2859	-108.8980	-2.0	3.5	-1.1	1.2
6/11/2019	6:49:40	38.2835	-108.9038	-2.0	3.6	-0.1	1.6
6/11/2019	7:35:08	38.2837	-108.9043	-2.0	3.5	-0.3	1.6
6/11/2019	7:44:46	38.2829	-108.9046	-2.1	3.6	-0.6	1.7
6/11/2019	7:44:54	38.2829	-108.9056	-2.0	3.5	0.1	1.8
6/11/2019	8:14:14	38.2829	-108.9056	-2.0	3.5	0.8	1.8
6/11/2019	8:15:28	38.2830	-108.9054	-2.0	3.5	0.0	1.8
6/11/2019	9:11:01	38.4073	-108.9334	-4.6	6.2	0.9	12.7
6/11/2019	10:04:29	38.2828	-108.9064	-2.0	3.5	0.1	1.8
6/11/2019	10:06:51	38.2828	-108.9063	-2.0	3.5	-0.4	1.8
6/11/2019	15:02:23	38.2825	-108.9059	-2.1	3.6	-0.3	1.8
6/11/2019	16:23:25	38.2821	-108.9081	-2.0	3.5	-1.2	2.0
6/11/2019	16:23:29	38.2821	-108.9083	-2.0	3.5	-0.5	2.0
6/11/2019	19:49:52	38.2820	-108.9085	-1.9	3.5	-0.1	2.0
6/11/2019	20:02:16	38.2821	-108.9082	-2.0	3.5	0.1	2.0
6/11/2019	20:08:10	38.2823	-108.9068	-1.9	3.4	-0.3	1.9

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
6/11/2019	21:51:17	38.2821	-108.9080	-2.0	3.5	-0.6	2.0
6/11/2019	22:59:06	38.2829	-108.9044	-2.3	3.9	-0.5	1.7
6/12/2019	4:59:35	38.2821	-108.9076	-2.0	3.5	-1.2	2.0
6/12/2019	4:59:46	38.2821	-108.9077	-2.0	3.6	-0.6	2.0
6/12/2019	6:14:31	38.2822	-108.9072	-2.0	3.5	0.0	1.9
6/12/2019	6:14:51	38.2821	-108.9073	-2.0	3.6	-1.0	1.9
6/12/2019	7:38:01	38.2822	-108.9075	-2.0	3.5	0.0	1.9
6/12/2019	12:14:07	38.2856	-108.8989	-2.0	3.5	-0.5	1.3
6/12/2019	21:30:52	38.2826	-108.9043	-2.2	3.7	-0.4	1.7
6/13/2019	16:54:26	38.2824	-108.9062	-2.1	3.6	-1.2	1.9
6/14/2019	0:11:03	38.2655	-108.9230	-2.3	3.8	-1.5	4.2
6/14/2019	11:34:24	38.2830	-108.9029	-2.3	3.8	0.2	1.7
6/14/2019	11:34:27	38.2832	-108.9025	-2.4	4.0	0.1	1.6
6/14/2019	15:24:51	38.2823	-108.9054	-2.1	3.6	-0.2	1.8
6/15/2019	3:11:26	38.2846	-108.9023	-2.1	3.6	-0.9	1.5
6/15/2019	7:30:31	38.2854	-108.8990	-2.0	3.5	0.3	1.3
6/15/2019	13:15:10	38.2829	-108.9048	-2.2	3.8	-0.5	1.7
6/15/2019	19:06:21	38.2832	-108.9032	-2.3	3.9	-0.4	1.6
6/16/2019	2:26:46	38.2839	-108.8994	-2.4	4.0	0.4	1.5
6/16/2019	3:41:21	38.2847	-108.9012	-2.0	3.5	-0.4	1.4
6/16/2019	5:03:35	38.3934	-108.8971	-4.6	6.2	-0.3	10.8
6/17/2019	2:41:30	38.2818	-108.9061	-2.1	3.6	0.9	1.9
6/17/2019	13:38:26	38.2848	-108.8985	-2.3	3.8	-0.3	1.3
6/18/2019	6:00:55	38.2827	-108.9058	-2.2	3.8	-0.4	1.8
6/18/2019	9:04:34	38.2843	-108.8990	-2.4	4.0	-0.2	1.4
6/18/2019	17:14:41	38.2824	-108.9055	-2.0	3.5	-0.4	1.8
6/18/2019	23:46:15	38.2792	-108.8978	-3.2	4.7	0.8	1.9
6/19/2019	9:53:26	38.2859	-108.8983	-2.1	3.6	-0.1	1.2
6/19/2019	17:19:54	38.2859	-108.8991	-2.0	3.5	-0.2	1.2
6/20/2019	18:41:24	38.2821	-108.9043	-2.0	3.6	0.2	1.8
6/21/2019	3:53:11	38.2821	-108.9081	-1.9	3.4	-0.6	2.0
6/21/2019	8:47:25	38.2844	-108.8902	-2.6	4.1	-0.5	1.4
6/21/2019	22:02:34	38.2824	-108.9062	-2.1	3.6	1.5	1.9
6/21/2019	22:18:43	38.2839	-108.9039	-2.0	3.5	-0.4	1.6
6/21/2019	23:05:12	38.2823	-108.9057	-2.4	3.9	-0.8	1.8
6/21/2019	23:40:54	38.2826	-108.9057	-2.1	3.6	-0.1	1.8
6/22/2019	3:14:14	38.2818	-108.9127	-2.1	3.6	-1.6	2.2
6/22/2019	7:28:49	38.2823	-108.9060	-2.0	3.5	-0.5	1.9
6/22/2019	9:24:22	38.2792	-108.9026	-2.9	4.4	-0.1	2.0
6/22/2019	10:31:46	38.2828	-108.9064	-2.0	3.5	-0.5	1.8
6/22/2019	10:31:49	38.2828	-108.9062	-2.1	3.6	-0.3	1.8
6/22/2019	10:31:59	38.2828	-108.9063	-2.0	3.5	-0.9	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
6/22/2019	10:32:00	38.2848	-108.9019	-2.1	3.6	-1.1	1.4
6/22/2019	11:29:08	38.2825	-108.9059	-2.1	3.6	0.6	1.8
6/23/2019	10:00:34	38.2824	-108.9047	-2.1	3.6	-0.2	1.8
6/23/2019	20:37:12	38.2832	-108.8914	-2.8	4.3	-0.5	1.5
6/23/2019	21:21:49	38.2830	-108.9051	-2.0	3.5	0.4	1.7
6/23/2019	21:21:58	38.2830	-108.9053	-2.0	3.5	-0.9	1.8
6/24/2019	1:23:21	38.2827	-108.9055	-2.1	3.6	-0.5	1.8
6/24/2019	11:59:57	38.2825	-108.9059	-2.0	3.6	0.1	1.8
6/24/2019	12:38:51	38.2797	-108.9072	-2.2	3.8	-0.3	2.2
6/24/2019	13:46:17	38.2826	-108.9063	-2.0	3.5	-0.2	1.8
6/24/2019	18:01:17	38.2820	-108.9040	-2.0	3.5	0.2	1.8
6/24/2019	19:10:07	38.2821	-108.9041	-2.0	3.6	0.2	1.8
6/25/2019	1:02:07	38.2836	-108.8928	-2.6	4.2	-0.2	1.5
6/25/2019	1:56:17	38.2821	-108.9041	-2.1	3.6	-0.4	1.8
6/25/2019	2:16:13	38.2849	-108.8991	-2.3	3.8	1.6	1.3
6/25/2019	4:31:19	38.2823	-108.9086	-2.0	3.5	-0.5	2.0
6/25/2019	17:13:59	38.2822	-108.9042	-2.0	3.5	-0.4	1.8
6/25/2019	20:08:33	38.2838	-108.8984	-2.7	4.2	0.7	1.4
6/25/2019	23:47:34	38.2822	-108.9071	-2.2	3.7	-0.5	1.9
6/26/2019	4:47:53	38.2837	-108.9041	-2.0	3.5	-0.5	1.6
6/26/2019	6:17:03	38.2831	-108.9038	-2.3	3.9	0.2	1.7
6/26/2019	6:52:01	38.2820	-108.9086	-2.0	3.6	0.1	2.0
6/26/2019	14:48:12	38.2833	-108.9050	-2.0	3.5	0.8	1.7
6/26/2019	23:23:16	38.2824	-108.9043	-2.3	3.8	1.1	1.8
6/27/2019	5:39:01	38.2834	-108.9061	-1.9	3.4	-0.2	1.8
6/27/2019	8:21:16	38.2838	-108.9035	-1.9	3.5	-0.2	1.6
6/28/2019	7:28:03	38.2816	-108.9073	-2.0	3.5	-0.7	2.0
6/28/2019	10:12:34	38.2707	-108.8744	-1.5	3.1	0.1	3.4
6/28/2019	11:43:20	38.2708	-108.8745	-1.5	3.1	0.4	3.4
6/28/2019	11:43:36	38.2707	-108.8745	-1.5	3.0	-1.1	3.4
6/28/2019	22:45:14	38.2707	-108.8742	-1.5	3.1	0.3	3.4
6/28/2019	22:45:39	38.2707	-108.8743	-1.5	3.0	-0.7	3.4
6/28/2019	22:46:05	38.2707	-108.8743	-1.5	3.0	0.1	3.4
6/28/2019	22:48:17	38.2706	-108.8741	-1.5	3.0	-0.1	3.4
6/29/2019	1:35:00	38.2706	-108.8741	-1.5	3.1	-0.3	3.4
6/29/2019	1:35:13	38.2706	-108.8741	-1.5	3.0	-0.9	3.4
6/29/2019	2:21:45	38.2833	-108.9045	-2.0	3.5	0.1	1.7
6/29/2019	6:11:06	38.2779	-108.9207	-1.4	2.9	1.7	3.1
6/29/2019	12:57:25	38.2856	-108.8988	-2.2	3.7	-0.3	1.3
6/29/2019	14:25:51	38.2829	-108.9048	-2.2	3.7	-0.7	1.7
6/30/2019	3:31:57	38.2707	-108.8744	-1.5	3.0	0.3	3.4

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
6/30/2019	7:15:57	38.2789	-108.9018	-3.0	4.5	0.4	2.1
6/30/2019	9:43:54	38.2821	-108.9093	-2.0	3.5	-0.1	2.0
6/30/2019	10:14:44	38.2806	-108.9064	-2.1	3.6	-0.5	2.0
6/30/2019	21:26:01	38.2827	-108.9075	-2.0	3.5	-0.2	1.9
7/1/2019	11:20:41	38.2861	-108.8975	-2.0	3.6	0.1	1.2
7/2/2019	20:09:09	38.2848	-108.9017	-2.1	3.7	-0.8	1.4
7/2/2019	20:20:38	38.2822	-108.9057	-2.1	3.6	1.1	1.8
7/2/2019	21:17:35	38.2801	-108.9073	-2.3	3.8	-0.4	2.1
7/2/2019	22:24:11	38.2855	-108.9000	-2.0	3.5	-0.1	1.3
7/3/2019	3:05:26	38.2828	-108.9074	-2.0	3.5	-0.3	1.9
7/3/2019	6:19:37	38.2827	-108.9075	-2.0	3.5	0.0	1.9
7/3/2019	7:58:19	38.2779	-108.9214	-1.4	2.9	-0.5	3.1
7/3/2019	7:58:24	38.2779	-108.9215	-1.4	2.9	-0.5	3.1
7/3/2019	7:58:42	38.2800	-108.9240	-2.2	3.7	-1.6	3.1
7/3/2019	14:26:30	38.2820	-108.9084	-2.1	3.6	-0.4	2.0
7/3/2019	14:42:56	38.2825	-108.9050	-2.0	3.5	-0.1	1.8
7/3/2019	23:17:46	38.2828	-108.9072	-2.0	3.5	-0.4	1.9
7/4/2019	3:39:20	38.2777	-108.9209	-1.4	2.9	-0.6	3.1
7/4/2019	4:10:21	38.2820	-108.9050	-2.3	3.8	0.6	1.8
7/4/2019	12:00:10	38.3934	-108.8972	-4.6	6.2	-0.1	10.8
7/4/2019	16:03:00	38.2828	-108.9071	-2.0	3.6	0.0	1.9
7/5/2019	1:05:10	38.4122	-108.9275	-5.6	7.1	-0.5	13.1
7/5/2019	19:52:23	38.2779	-108.9214	-1.4	2.9	-0.1	3.1
7/5/2019	22:35:23	38.2858	-108.9002	-2.1	3.7	-0.7	1.3
7/6/2019	17:26:20	38.2821	-108.9077	-2.1	3.6	-0.1	2.0
7/7/2019	1:13:47	38.2829	-108.9069	-2.2	3.7	-0.5	1.8
7/7/2019	6:06:37	38.2780	-108.9213	-1.4	2.9	-0.4	3.1
7/7/2019	6:06:47	38.2779	-108.9215	-1.4	2.9	-0.5	3.1
7/8/2019	15:58:44	38.2837	-108.9043	-1.9	3.5	-0.3	1.6
7/8/2019	21:10:41	38.2790	-108.9193	-1.7	3.2	-1.2	2.9
7/9/2019	22:25:33	38.2780	-108.9214	-1.4	2.9	-0.2	3.1
7/10/2019	2:17:40	38.2848	-108.9008	-2.1	3.6	-0.2	1.4
7/10/2019	8:47:29	38.2700	-108.8656	-1.3	2.8	0.4	3.9
7/11/2019	1:33:45	38.2771	-108.8819	-1.4	2.9	-0.7	2.4
7/11/2019	14:18:57	38.2701	-108.8657	-1.3	2.8	-0.2	3.9
7/12/2019	18:47:20	38.2853	-108.9004	-2.0	3.5	-0.4	1.3
7/13/2019	14:13:03	38.2846	-108.8909	-2.5	4.0	1.0	1.4
7/14/2019	5:22:34	38.2822	-108.9047	-2.1	3.6	-0.2	1.8
7/14/2019	12:16:16	38.2853	-108.9000	-2.0	3.6	-0.3	1.3
7/14/2019	18:47:33	38.2833	-108.9032	-2.1	3.6	-0.4	1.6
7/15/2019	12:21:38	38.2825	-108.9049	-2.1	3.7	-0.3	1.8
7/15/2019	14:00:01	38.2821	-108.9040	-2.0	3.5	-0.5	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
7/16/2019	8:04:06	38.2821	-108.9058	-2.1	3.6	-0.2	1.9
7/16/2019	18:14:53	38.2859	-108.8965	-2.0	3.5	-0.1	1.2
7/17/2019	4:19:57	38.2821	-108.9083	-1.9	3.5	-0.6	2.0
7/17/2019	6:47:27	38.2821	-108.9080	-1.9	3.5	-0.4	2.0
7/17/2019	6:50:53	38.2822	-108.9081	-1.9	3.5	0.0	2.0
7/17/2019	7:01:54	38.2821	-108.9082	-1.9	3.4	-0.7	2.0
7/17/2019	8:33:14	38.2821	-108.9082	-1.9	3.4	-0.7	2.0
7/17/2019	16:24:43	38.2854	-108.8989	-2.0	3.5	-0.4	1.3
7/17/2019	20:51:42	38.2821	-108.9087	-2.0	3.5	0.3	2.0
7/17/2019	22:25:33	38.2823	-108.9071	-2.0	3.5	-0.8	1.9
7/17/2019	23:50:51	38.2823	-108.9071	-2.0	3.5	-0.4	1.9
7/18/2019	5:55:44	38.2810	-108.9062	-2.0	3.5	-0.5	2.0
7/18/2019	6:44:17	38.2705	-108.8740	-1.5	3.0	-0.2	3.4
7/18/2019	7:09:49	38.2856	-108.8990	-2.0	3.5	0.3	1.3
7/18/2019	7:29:53	38.2705	-108.8740	-1.5	3.0	-0.5	3.4
7/18/2019	14:43:56	38.2820	-108.9085	-2.0	3.6	-0.2	2.0
7/18/2019	23:04:17	38.2822	-108.9079	-2.0	3.5	-0.3	2.0
7/19/2019	1:41:59	38.2823	-108.9055	-2.1	3.6	-0.5	1.8
7/19/2019	8:02:37	38.2822	-108.9081	-2.0	3.5	-0.2	2.0
7/19/2019	8:03:30	38.2821	-108.9079	-2.0	3.5	-1.0	2.0
7/19/2019	8:20:18	38.2822	-108.9082	-2.0	3.5	1.2	2.0
7/20/2019	21:01:08	38.2858	-108.8997	-2.0	3.6	-0.5	1.3
7/21/2019	4:52:23	38.3453	-108.7772	-4.4	5.9	0.1	11.6
7/21/2019	6:13:45	38.2782	-108.9207	-1.4	3.0	-0.3	3.0
7/22/2019	6:03:11	38.2826	-108.9006	-2.6	4.2	0.6	1.6
7/22/2019	14:12:35	38.2813	-108.9105	-1.8	3.4	-0.2	2.2
7/22/2019	19:52:01	38.2843	-108.9020	-2.0	3.5	-0.4	1.5
7/22/2019	23:13:03	38.3460	-108.8929	-4.8	6.3	-0.5	5.5
7/23/2019	10:34:47	38.2825	-108.9067	-2.3	3.8	0.3	1.9
7/24/2019	0:58:47	38.2788	-108.9182	-1.4	3.0	-1.2	2.8
7/25/2019	4:41:27	38.2821	-108.9085	-2.0	3.5	-0.1	2.0
7/25/2019	22:59:30	38.2825	-108.9068	-2.2	3.7	0.4	1.9
7/26/2019	0:38:29	38.2855	-108.9006	-2.2	3.7	-1.0	1.3
7/26/2019	3:57:00	38.2861	-108.8967	-2.1	3.6	0.2	1.2
7/26/2019	9:03:28	38.2854	-108.8995	-1.9	3.5	-0.5	1.3
7/26/2019	23:37:00	38.2857	-108.9062	-1.2	2.7	-0.8	1.6
7/27/2019	5:42:17	38.2821	-108.9075	-2.0	3.6	-0.1	1.9
7/27/2019	6:55:58	38.2821	-108.9076	-2.0	3.6	-0.1	1.9
7/27/2019	12:08:52	38.2823	-108.9068	-2.1	3.6	1.0	1.9
7/27/2019	14:11:30	38.2853	-108.9003	-2.0	3.5	-0.2	1.3
7/27/2019	18:58:40	38.2730	-108.9228	-1.1	2.6	-0.6	3.6

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
7/28/2019	14:10:18	38.2784	-108.9199	-1.4	2.9	0.1	3.0
7/29/2019	0:51:46	38.2822	-108.9056	-2.1	3.6	-0.3	1.8
7/29/2019	1:05:18	38.2810	-108.9084	-2.3	3.8	-0.7	2.1
7/29/2019	8:17:50	38.4602	-109.0832	-2.9	4.4	1.1	24.5
7/29/2019	12:42:35	38.2810	-108.9092	-2.2	3.7	0.0	2.1
7/30/2019	7:06:24	38.2835	-108.9056	-1.9	3.5	-0.3	1.7
7/30/2019	21:08:49	38.2837	-108.9045	-1.4	2.9	-1.2	1.7
7/30/2019	23:08:14	38.2814	-108.9069	-2.0	3.5	0.0	2.0
7/31/2019	5:35:34	38.2821	-108.9078	-2.0	3.6	0.2	2.0
7/31/2019	8:53:58	38.2830	-108.9054	-2.0	3.5	0.0	1.8
7/31/2019	13:52:11	38.2853	-108.9000	-1.9	3.5	-0.2	1.3
7/31/2019	16:38:35	38.2824	-108.9068	-2.0	3.6	1.1	1.9
7/31/2019	20:14:31	38.2777	-108.8213	-2.6	4.1	-0.6	6.8
8/1/2019	2:50:49	38.2821	-108.9076	-2.1	3.6	0.0	1.9
8/1/2019	4:54:29	38.2713	-108.9432	-1.4	3.0	0.4	5.1
8/1/2019	16:18:16	38.2779	-108.9216	-1.4	2.9	1.1	3.1
8/1/2019	16:32:40	38.2822	-108.9076	-2.0	3.5	-0.4	1.9
8/1/2019	16:58:41	38.2822	-108.9077	-2.0	3.5	0.3	1.9
8/1/2019	17:10:37	38.2822	-108.9077	-2.0	3.5	-0.2	1.9
8/1/2019	17:14:43	38.2822	-108.9075	-2.0	3.5	-0.3	1.9
8/2/2019	2:42:53	38.2866	-108.8982	-2.1	3.7	0.1	1.1
8/2/2019	11:58:23	38.2858	-108.8947	-2.2	3.7	-0.4	1.2
8/2/2019	14:52:15	38.2828	-108.9061	-2.0	3.5	-0.2	1.8
8/2/2019	18:25:16	38.2829	-108.9064	-2.3	3.8	-0.4	1.8
8/4/2019	16:26:51	38.2820	-108.9054	-2.3	3.8	0.3	1.8
8/4/2019	16:47:45	38.2852	-108.8923	-2.3	3.9	-0.2	1.3
8/5/2019	1:22:45	38.2814	-108.9078	-2.2	3.7	-0.5	2.0
8/5/2019	2:32:43	38.2834	-108.9040	-2.0	3.6	-0.3	1.7
8/5/2019	2:36:28	38.2835	-108.9039	-2.0	3.6	-0.5	1.6
8/5/2019	13:08:12	38.2839	-108.9035	-1.9	3.5	0.0	1.6
8/5/2019	21:01:43	38.2824	-108.9058	-2.3	3.8	-0.2	1.8
8/9/2019	1:19:40	38.2855	-108.8994	-2.4	4.0	-0.6	1.3
8/9/2019	23:17:28	38.2823	-108.9038	-2.4	3.9	0.6	1.8
8/11/2019	9:31:00	38.2851	-108.8925	-2.4	3.9	0.1	1.3
8/12/2019	17:47:20	38.4049	-108.9039	-5.7	7.3	-0.1	12.1
8/13/2019	5:15:22	38.2854	-108.8921	-2.1	3.6	1.0	1.3
8/14/2019	21:29:15	38.2821	-108.9080	-2.1	3.6	0.4	2.0
8/16/2019	5:24:23	38.2814	-108.9102	-1.9	3.4	-0.4	2.1
8/17/2019	5:52:28	38.2846	-108.8949	-2.2	3.7	-0.6	1.3
8/17/2019	9:23:45	38.2820	-108.9098	-2.0	3.5	0.1	2.1
8/17/2019	10:54:29	38.2821	-108.9096	-2.0	3.5	1.5	2.1
8/17/2019	21:34:32	38.2847	-108.8976	-2.3	3.9	-0.8	1.3

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
8/18/2019	6:22:34	38.2806	-108.9078	-2.2	3.8	1.1	2.1
8/18/2019	19:22:42	38.2841	-108.9027	-2.0	3.5	0.4	1.5
8/18/2019	23:50:53	38.2829	-108.9032	-2.3	3.8	-0.1	1.7
8/19/2019	19:42:46	38.2821	-108.9095	-2.0	3.5	-0.3	2.1
8/20/2019	12:36:44	38.2819	-108.9089	-1.9	3.4	-0.8	2.0
8/20/2019	16:56:12	38.2859	-108.8981	-2.0	3.5	0.1	1.2
8/21/2019	3:17:41	38.2819	-108.9099	-2.0	3.5	0.0	2.1
8/21/2019	4:17:25	38.2825	-108.9059	-2.0	3.5	-0.5	1.8
8/21/2019	14:20:16	38.2686	-108.9278	-0.1	1.7	1.1	4.2
8/21/2019	16:27:18	38.2702	-108.9423	-1.1	2.7	-0.7	5.1
8/21/2019	21:47:00	38.2819	-108.9100	-2.0	3.5	-0.4	2.1
8/23/2019	22:48:21	38.2824	-108.9055	-2.0	3.5	-0.7	1.8
8/23/2019	22:48:36	38.2824	-108.9055	-2.0	3.6	-1.1	1.8
8/24/2019	13:25:36	38.2817	-108.9060	-2.1	3.6	-0.2	1.9
8/25/2019	5:06:36	38.2858	-108.8983	-2.0	3.5	-0.2	1.2
8/25/2019	22:26:11	38.2821	-108.9093	-2.0	3.5	-0.8	2.0
8/26/2019	17:16:26	38.2813	-108.9070	-2.0	3.5	0.2	2.0
8/28/2019	0:50:03	38.2821	-108.9096	-2.0	3.5	0.1	2.1
8/28/2019	14:59:49	38.2855	-108.8990	-2.0	3.5	0.3	1.3
8/28/2019	15:16:33	38.2831	-108.9054	-2.0	3.5	-0.7	1.8
8/28/2019	15:21:26	38.2837	-108.9040	-2.0	3.5	-0.5	1.6
8/29/2019	20:26:50	38.2773	-108.9230	-1.4	3.0	-0.4	3.2
8/29/2019	23:59:54	38.2820	-108.9098	-2.0	3.5	0.2	2.1
8/30/2019	2:14:40	38.2839	-108.9036	-1.9	3.5	-0.1	1.6
8/30/2019	2:14:42	38.2824	-108.9066	-2.3	3.9	-0.6	1.9
8/31/2019	12:23:19	38.2814	-108.9102	-1.8	3.4	-0.3	2.1
9/1/2019	10:24:41	38.2830	-108.9046	-2.2	3.8	-0.6	1.7
9/1/2019	11:44:17	38.3493	-108.9087	-3.9	5.5	0.5	6.0
9/2/2019	10:36:43	38.2783	-108.9203	-1.4	2.9	0.0	3.0
9/3/2019	2:54:25	38.2834	-108.9047	-2.0	3.5	1.0	1.7
9/3/2019	9:18:33	38.2840	-108.9030	-1.9	3.5	-0.2	1.6
9/3/2019	17:20:44	38.2763	-108.8242	-0.6	2.1	-0.3	6.6
9/3/2019	21:21:05	38.4033	-108.8720	-4.4	5.9	0.0	12.0
9/3/2019	23:38:11	38.2852	-108.8985	-2.0	3.5	-0.5	1.3
9/4/2019	16:07:08	38.2828	-108.9061	-2.0	3.5	0.8	1.8
9/4/2019	16:07:56	38.2829	-108.9060	-2.0	3.5	-0.8	1.8
9/4/2019	16:10:29	38.2829	-108.9059	-2.0	3.5	-0.3	1.8
9/4/2019	16:16:54	38.2828	-108.9062	-2.0	3.5	0.4	1.8
9/4/2019	16:28:42	38.2829	-108.9055	-2.0	3.5	-0.1	1.8
9/4/2019	16:34:49	38.2828	-108.9063	-2.0	3.5	0.5	1.8
9/4/2019	17:39:45	38.2808	-108.9065	-2.1	3.6	-0.1	2.0

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/4/2019	22:50:31	38.2822	-108.9092	-2.0	3.5	-0.4	2.0
9/5/2019	7:12:24	38.2829	-108.9059	-2.0	3.5	0.2	1.8
9/5/2019	11:29:21	38.2828	-108.9058	-2.1	3.6	-0.5	1.8
9/5/2019	11:41:39	38.2827	-108.9062	-2.0	3.6	-0.2	1.8
9/5/2019	17:42:18	38.3934	-108.8971	-4.6	6.2	-0.1	10.8
9/5/2019	17:56:52	38.4035	-108.8717	-4.4	5.9	1.9	12.0
9/5/2019	18:10:50	38.4034	-108.8715	-4.4	5.9	0.0	12.0
9/5/2019	20:48:16	38.4036	-108.8714	-4.4	5.9	1.3	12.1
9/5/2019	20:56:35	38.4035	-108.8719	-4.4	5.9	0.3	12.0
9/5/2019	22:23:16	38.4036	-108.8711	-4.4	5.9	-0.4	12.1
9/6/2019	4:16:24	38.4036	-108.8713	-4.4	5.9	0.1	12.1
9/6/2019	14:50:14	38.4035	-108.8719	-4.4	5.9	-0.2	12.0
9/6/2019	15:58:55	38.4037	-108.8712	-4.4	5.9	0.7	12.1
9/6/2019	20:22:14	38.2822	-108.9091	-2.0	3.5	1.1	2.0
9/6/2019	22:10:47	38.4037	-108.8712	-4.4	5.9	0.1	12.1
9/6/2019	23:13:09	38.4036	-108.8717	-4.4	5.9	0.1	12.1
9/7/2019	4:53:14	38.2838	-108.9037	-2.1	3.6	-0.2	1.6
9/7/2019	4:54:24	38.2836	-108.9041	-2.0	3.5	0.0	1.6
9/7/2019	5:41:48	38.2838	-108.9040	-2.0	3.5	-0.5	1.6
9/7/2019	9:45:42	38.2859	-108.8980	-2.0	3.5	0.1	1.2
9/7/2019	10:04:12	38.2823	-108.9089	-2.0	3.5	1.9	2.0
9/7/2019	10:31:27	38.2835	-108.9038	-2.0	3.5	-0.5	1.6
9/7/2019	10:36:22	38.2822	-108.9091	-2.1	3.6	-0.2	2.0
9/7/2019	15:56:39	38.2822	-108.9086	-2.1	3.6	-0.6	2.0
9/8/2019	0:16:39	38.4036	-108.8714	-4.4	5.9	0.1	12.1
9/8/2019	0:20:01	38.4035	-108.8716	-4.4	5.9	0.4	12.1
9/8/2019	0:21:45	38.4036	-108.8716	-4.4	5.9	0.0	12.1
9/8/2019	1:45:31	38.2840	-108.9028	-2.0	3.5	-0.3	1.6
9/8/2019	4:28:19	38.4038	-108.8713	-4.4	5.9	0.1	12.1
9/8/2019	15:36:09	38.4036	-108.8712	-4.4	5.9	0.7	12.1
9/8/2019	21:04:16	38.4035	-108.8717	-4.4	5.9	0.3	12.0
9/8/2019	23:43:11	38.4035	-108.8715	-4.4	5.9	0.3	12.0
9/9/2019	10:18:32	38.2851	-108.9010	-2.1	3.7	0.6	1.4
9/9/2019	10:51:32	38.4033	-108.8719	-4.4	5.9	0.1	12.0
9/9/2019	14:19:09	38.3323	-108.7632	-7.0	8.5	0.1	12.2
9/10/2019	5:55:07	38.2722	-108.9270	2.5	-0.9	1.0	3.9
9/10/2019	22:42:32	38.4036	-108.8710	-4.4	6.0	-0.3	12.1
9/10/2019	23:58:31	38.4038	-108.8709	-4.4	5.9	0.9	12.1
9/11/2019	12:26:13	38.4036	-108.8706	-4.4	5.9	-0.3	12.1
9/11/2019	23:52:16	38.2700	-108.9223	-0.7	2.2	-0.3	3.8
9/12/2019	4:56:29	38.2854	-108.8987	-2.0	3.5	-0.2	1.3
9/12/2019	15:49:47	38.3187	-108.6257	-7.9	9.4	0.0	23.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/12/2019	16:49:48	38.4035	-108.8717	-4.4	5.9	2.1	12.0
9/12/2019	17:05:08	38.4037	-108.8710	-4.4	5.9	0.5	12.1
9/12/2019	17:59:25	38.4035	-108.8717	-4.4	5.9	1.0	12.0
9/12/2019	18:31:35	38.4036	-108.8706	-4.5	6.0	0.8	12.1
9/12/2019	19:24:02	38.4032	-108.8720	-4.4	5.9	0.0	12.0
9/13/2019	1:27:30	38.4036	-108.8719	-4.4	5.9	0.1	12.1
9/13/2019	3:04:17	38.4037	-108.8710	-4.5	6.0	0.9	12.1
9/13/2019	4:16:45	38.4036	-108.8716	-4.4	5.9	0.5	12.1
9/13/2019	6:48:40	38.4038	-108.8700	-4.5	6.1	-0.8	12.1
9/13/2019	6:48:58	38.4037	-108.8695	-4.5	6.0	0.2	12.1
9/13/2019	8:33:53	38.4037	-108.8695	-4.5	6.1	0.2	12.1
9/13/2019	9:32:47	38.4037	-108.8696	-4.5	6.0	0.3	12.1
9/13/2019	15:20:06	38.4037	-108.8695	-4.5	6.0	0.2	12.1
9/13/2019	16:59:59	38.4037	-108.8695	-4.5	6.0	0.0	12.1
9/13/2019	22:30:05	38.2806	-108.9078	-2.2	3.8	0.3	2.1
9/13/2019	23:16:07	38.2834	-108.9046	-2.0	3.5	0.1	1.7
9/13/2019	23:33:58	38.2842	-108.9020	-2.1	3.6	-0.2	1.5
9/14/2019	7:08:01	38.4035	-108.8718	-4.3	5.9	1.0	12.0
9/14/2019	8:37:28	38.2854	-108.8968	-2.0	3.5	-0.7	1.2
9/14/2019	9:22:13	38.4035	-108.8717	-4.3	5.9	0.4	12.0
9/14/2019	17:04:45	38.4035	-108.8719	-4.4	5.9	-0.2	12.0
9/15/2019	0:52:27	38.4037	-108.8700	-4.5	6.0	0.4	12.1
9/15/2019	0:56:19	38.4037	-108.8698	-4.5	6.0	1.0	12.1
9/15/2019	1:00:21	38.4050	-108.8628	-3.8	5.3	-1.6	12.4
9/15/2019	1:00:24	38.4037	-108.8700	-4.5	6.0	0.9	12.1
9/15/2019	2:01:30	38.4037	-108.8700	-4.5	6.0	0.7	12.1
9/15/2019	7:54:32	38.4037	-108.8696	-4.5	6.0	0.7	12.1
9/15/2019	10:37:09	38.4038	-108.8708	-4.4	5.9	1.5	12.1
9/15/2019	10:40:59	38.4038	-108.8708	-4.4	6.0	1.5	12.1
9/15/2019	11:07:23	38.4037	-108.8712	-4.4	5.9	0.7	12.1
9/15/2019	11:29:39	38.4037	-108.8697	-4.5	6.0	0.7	12.1
9/15/2019	17:03:17	38.4036	-108.8713	-4.4	5.9	0.1	12.1
9/15/2019	20:10:07	38.2080	-108.7307	-3.1	4.7	0.0	17.4
9/15/2019	22:07:15	38.2656	-108.8390	-2.4	3.9	1.7	6.0
9/15/2019	22:17:48	38.4037	-108.8713	-4.4	5.9	0.4	12.1
9/15/2019	22:19:41	38.4035	-108.8719	-4.4	5.9	0.3	12.0
9/15/2019	22:46:11	38.4036	-108.8718	-4.4	5.9	0.3	12.1
9/15/2019	23:24:31	38.4085	-108.8662	-3.9	5.4	-0.8	12.7
9/16/2019	1:34:35	38.4038	-108.8708	-4.4	5.9	0.5	12.1
9/16/2019	1:49:49	38.4037	-108.8711	-4.4	5.9	0.3	12.1
9/16/2019	2:56:07	38.4037	-108.8713	-4.4	5.9	0.3	12.1

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/16/2019	3:16:09	38.4036	-108.8703	-4.5	6.0	0.0	12.1
9/16/2019	5:01:40	38.4037	-108.8703	-4.5	6.0	0.2	12.1
9/16/2019	5:15:55	38.2778	-108.9213	-1.4	2.9	0.2	3.1
9/16/2019	7:23:18	38.4037	-108.8696	-4.5	6.0	0.2	12.1
9/16/2019	7:35:21	38.4037	-108.8694	-4.5	6.0	0.0	12.1
9/16/2019	9:46:04	38.4036	-108.8706	-4.5	6.0	1.2	12.1
9/16/2019	9:48:13	38.4038	-108.8700	-4.5	6.0	0.2	12.1
9/16/2019	9:48:39	38.4035	-108.8717	-4.4	5.9	-0.5	12.0
9/16/2019	10:02:58	38.4037	-108.8701	-4.5	6.0	0.6	12.1
9/16/2019	10:31:24	38.4038	-108.8699	-4.5	6.0	1.3	12.1
9/16/2019	11:02:07	38.4037	-108.8714	-4.4	5.9	0.4	12.1
9/16/2019	12:20:41	38.4036	-108.8714	-4.4	5.9	-0.2	12.1
9/16/2019	14:27:22	38.4037	-108.8711	-4.4	5.9	0.3	12.1
9/16/2019	21:38:15	38.4036	-108.8716	-4.4	5.9	1.9	12.1
9/16/2019	22:16:09	38.4042	-108.8694	-4.6	6.1	-0.2	12.2
9/16/2019	22:16:25	38.4038	-108.8692	-4.5	6.1	0.6	12.1
9/16/2019	22:18:07	38.4037	-108.8696	-4.5	6.0	0.1	12.1
9/16/2019	22:20:10	38.4038	-108.8695	-4.5	6.1	0.3	12.1
9/16/2019	22:32:17	38.4037	-108.8692	-4.5	6.1	0.0	12.1
9/16/2019	23:38:11	38.4038	-108.8693	-4.5	6.1	0.6	12.1
9/16/2019	23:39:02	38.4038	-108.8695	-4.5	6.1	0.6	12.1
9/17/2019	1:12:48	38.4038	-108.8690	-4.5	6.1	-0.1	12.1
9/17/2019	2:43:16	38.4038	-108.8690	-4.5	6.1	0.6	12.1
9/17/2019	4:51:59	38.4036	-108.8717	-4.3	5.9	0.0	12.1
9/17/2019	7:34:16	38.4034	-108.8720	-4.3	5.9	0.2	12.0
9/17/2019	7:44:04	38.4038	-108.8710	-4.4	5.9	0.1	12.1
9/17/2019	8:28:07	38.4038	-108.8687	-4.6	6.1	-0.2	12.1
9/17/2019	8:28:47	38.4038	-108.8693	-4.5	6.1	0.6	12.1
9/17/2019	9:36:13	38.4038	-108.8708	-4.4	5.9	0.8	12.1
9/17/2019	9:37:53	38.4055	-108.8622	-3.9	5.5	-0.1	12.4
9/17/2019	11:19:44	38.4039	-108.8691	-4.6	6.1	-0.2	12.1
9/17/2019	11:38:41	38.4039	-108.8707	-4.5	6.0	-0.7	12.1
9/17/2019	22:53:33	38.4037	-108.8698	-4.5	6.0	1.1	12.1
9/17/2019	22:55:41	38.4036	-108.8698	-4.5	6.0	0.1	12.1
9/17/2019	22:57:53	38.4037	-108.8696	-4.5	6.0	0.8	12.1
9/17/2019	23:17:47	38.4036	-108.8696	-4.5	6.0	0.0	12.1
9/17/2019	23:38:44	38.2883	-108.8932	-2.5	4.0	-0.8	0.9
9/17/2019	23:39:51	38.4038	-108.8702	-4.5	6.0	-0.1	12.1
9/17/2019	23:46:06	38.4036	-108.8700	-4.5	6.0	-0.2	12.1
9/17/2019	23:46:17	38.4036	-108.8703	-4.5	6.0	-1.1	12.1
9/18/2019	3:36:29	38.4036	-108.8716	-4.4	5.9	0.1	12.1
9/18/2019	5:07:24	38.4037	-108.8690	-4.5	6.0	0.3	12.1

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/18/2019	5:12:30	38.2820	-108.9100	-2.0	3.5	-0.1	2.1
9/18/2019	22:14:09	38.4034	-108.8720	-4.3	5.8	0.4	12.0
9/19/2019	0:20:40	38.2814	-108.9101	-1.9	3.4	-0.3	2.1
9/19/2019	0:56:06	38.2812	-108.9106	-1.8	3.4	-0.3	2.2
9/19/2019	5:45:40	38.4035	-108.8719	-4.3	5.8	0.7	12.0
9/19/2019	9:21:54	38.3417	-108.8755	-4.5	6.0	0.4	5.3
9/19/2019	12:48:47	38.2821	-108.9094	-2.0	3.5	0.6	2.0
9/19/2019	19:17:44	38.3934	-108.8970	-4.6	6.2	0.3	10.8
9/19/2019	23:19:19	38.4036	-108.8713	-4.5	6.0	0.0	12.1
9/21/2019	6:16:21	38.4033	-108.8720	-4.4	5.9	0.2	12.0
9/21/2019	10:35:09	38.4038	-108.8708	-4.4	5.9	0.5	12.1
9/21/2019	18:10:07	38.4038	-108.8710	-4.4	5.9	0.0	12.1
9/21/2019	18:49:59	38.4037	-108.8714	-4.4	5.9	0.0	12.1
9/21/2019	19:16:47	38.2782	-108.9205	-1.5	3.0	-0.1	3.0
9/21/2019	23:11:34	38.4037	-108.8691	-4.5	6.0	0.1	12.1
9/22/2019	4:24:14	38.4037	-108.8690	-4.5	6.0	0.4	12.1
9/22/2019	5:41:55	38.2777	-108.8273	-2.4	3.9	0.1	6.3
9/22/2019	6:16:33	38.4037	-108.8692	-4.5	6.0	0.7	12.1
9/22/2019	7:28:03	38.4037	-108.8696	-4.5	6.0	0.6	12.1
9/22/2019	7:41:25	38.4037	-108.8696	-4.5	6.0	0.7	12.1
9/22/2019	8:00:54	38.4037	-108.8694	-4.5	6.0	0.3	12.1
9/22/2019	8:05:49	38.4037	-108.8692	-4.5	6.0	1.6	12.1
9/22/2019	9:36:39	38.4036	-108.8687	-4.5	6.0	-0.9	12.1
9/22/2019	9:36:50	38.4037	-108.8689	-4.5	6.0	-0.2	12.1
9/22/2019	10:09:17	38.4036	-108.8694	-4.5	6.0	0.8	12.1
9/22/2019	13:11:45	38.2782	-108.9208	-1.4	3.0	-0.1	3.0
9/22/2019	14:05:25	38.4038	-108.8687	-4.5	6.0	0.2	12.1
9/22/2019	17:24:59	38.4034	-108.8695	-4.4	5.9	0.2	12.1
9/23/2019	2:42:47	38.4036	-108.8691	-4.4	6.0	-0.2	12.1
9/23/2019	2:43:00	38.4035	-108.8689	-4.4	6.0	-0.5	12.1
9/23/2019	2:43:58	38.4036	-108.8688	-4.4	6.0	-0.7	12.1
9/23/2019	3:53:48	38.4077	-108.8620	-3.9	5.4	-0.6	12.7
9/23/2019	4:44:16	38.4036	-108.8692	-4.4	6.0	0.5	12.1
9/23/2019	8:47:12	38.4037	-108.8692	-4.5	6.0	0.9	12.1
9/24/2019	3:01:21	38.4037	-108.8698	-4.4	6.0	-0.1	12.1
9/24/2019	4:27:12	38.4016	-108.8689	-4.4	5.9	0.9	11.9
9/24/2019	4:27:23	38.4016	-108.8692	-4.4	5.9	0.3	11.9
9/24/2019	4:27:43	38.4062	-108.8622	-4.1	5.6	-0.9	12.5
9/24/2019	4:28:17	38.4016	-108.8684	-4.4	6.0	0.1	11.9
9/24/2019	4:29:20	38.4017	-108.8692	-4.5	6.0	-0.3	11.9
9/24/2019	4:30:21	38.4016	-108.8686	-4.5	6.0	0.4	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/24/2019	4:31:17	38.4017	-108.8686	-4.5	6.0	-0.4	11.9
9/24/2019	4:31:42	38.4067	-108.8597	-3.5	5.0	-0.6	12.6
9/24/2019	4:43:16	38.4016	-108.8692	-4.4	6.0	0.4	11.9
9/24/2019	4:43:19	38.4016	-108.8694	-4.5	6.0	0.1	11.9
9/24/2019	4:54:14	38.4015	-108.8686	-4.5	6.0	0.2	11.9
9/24/2019	4:55:43	38.4015	-108.8697	-4.4	5.9	-0.1	11.9
9/24/2019	4:56:39	38.4016	-108.8688	-4.5	6.0	0.1	11.9
9/24/2019	4:57:35	38.4016	-108.8684	-4.4	6.0	-0.1	11.9
9/24/2019	5:07:32	38.4016	-108.8684	-4.5	6.0	1.0	11.9
9/24/2019	5:08:16	38.4016	-108.8684	-4.5	6.0	0.0	11.9
9/24/2019	5:09:45	38.4017	-108.8682	-4.5	6.0	-0.3	11.9
9/24/2019	5:10:39	38.4067	-108.8605	-3.8	5.3	-0.2	12.6
9/24/2019	5:18:46	38.4015	-108.8685	-4.4	5.9	0.2	11.9
9/24/2019	5:33:00	38.4016	-108.8681	-4.5	6.0	0.1	11.9
9/24/2019	5:51:23	38.4016	-108.8679	-4.5	6.0	0.4	11.9
9/24/2019	6:27:09	38.4036	-108.8703	-4.5	6.0	1.3	12.1
9/24/2019	6:28:57	38.4016	-108.8695	-4.4	5.9	0.1	11.9
9/24/2019	6:31:38	38.4016	-108.8698	-4.4	5.9	1.2	11.9
9/24/2019	6:32:18	38.4015	-108.8692	-4.4	5.9	0.2	11.9
9/24/2019	6:32:31	38.4036	-108.8699	-4.5	6.0	-0.3	12.1
9/24/2019	6:33:16	38.4016	-108.8694	-4.4	5.9	1.6	11.9
9/24/2019	6:34:55	38.4016	-108.8682	-4.5	6.0	0.3	11.9
9/24/2019	6:54:37	38.4016	-108.8685	-4.4	6.0	0.2	11.9
9/24/2019	7:37:41	38.4016	-108.8677	-4.5	6.0	-0.5	11.9
9/24/2019	7:38:03	38.4016	-108.8677	-4.5	6.0	-0.4	11.9
9/24/2019	7:38:06	38.4017	-108.8677	-4.5	6.0	0.5	11.9
9/24/2019	8:04:53	38.4014	-108.8699	-4.4	5.9	-0.3	11.8
9/24/2019	8:14:15	38.4014	-108.8695	-4.4	5.9	0.2	11.9
9/24/2019	9:25:15	38.2855	-108.8992	-1.9	3.5	0.0	1.3
9/24/2019	9:39:04	38.4015	-108.8673	-4.5	6.0	0.4	11.9
9/24/2019	9:39:10	38.4016	-108.8671	-4.5	6.0	-0.2	11.9
9/24/2019	10:11:00	38.4017	-108.8690	-4.5	6.0	0.4	11.9
9/24/2019	11:26:08	38.4015	-108.8673	-4.5	6.0	-0.2	11.9
9/24/2019	11:34:16	38.4015	-108.8674	-4.4	6.0	0.4	11.9
9/24/2019	13:14:30	38.4016	-108.8673	-4.5	6.0	0.2	11.9
9/24/2019	13:25:05	38.4036	-108.8696	-4.5	6.0	-0.1	12.1
9/24/2019	14:20:57	38.4015	-108.8677	-4.4	6.0	-0.4	11.9
9/24/2019	15:20:09	38.4037	-108.8690	-4.5	6.0	0.1	12.1
9/24/2019	15:24:18	38.4036	-108.8683	-4.4	6.0	-0.1	12.1
9/24/2019	15:29:17	38.4036	-108.8693	-4.4	6.0	0.9	12.1
9/24/2019	15:33:24	38.4035	-108.8695	-4.4	5.9	0.2	12.1
9/24/2019	15:38:28	38.2836	-108.9043	-1.9	3.5	-0.4	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/24/2019	15:40:15	38.3065	-108.9140	-3.1	4.7	0.1	2.0
9/24/2019	15:46:56	38.4036	-108.8693	-4.4	5.9	0.2	12.1
9/24/2019	16:54:16	38.4014	-108.8694	-4.4	5.9	-0.4	11.9
9/24/2019	19:08:33	38.4015	-108.8677	-4.4	6.0	0.0	11.9
9/24/2019	19:09:52	38.4038	-108.8680	-4.5	6.0	-0.3	12.1
9/24/2019	19:17:41	38.4036	-108.8688	-4.4	6.0	-0.1	12.1
9/24/2019	19:38:22	38.4014	-108.8685	-4.4	5.9	0.6	11.9
9/24/2019	19:39:10	38.4014	-108.8687	-4.4	5.9	0.1	11.9
9/24/2019	19:42:07	38.4014	-108.8682	-4.4	6.0	1.0	11.9
9/24/2019	19:49:32	38.4014	-108.8681	-4.4	5.9	0.3	11.9
9/24/2019	19:54:16	38.4017	-108.8690	-4.4	6.0	0.0	11.9
9/24/2019	19:54:53	38.4015	-108.8691	-4.4	5.9	0.0	11.9
9/24/2019	19:56:56	38.4015	-108.8675	-4.4	6.0	-0.4	11.9
9/24/2019	19:57:18	38.4016	-108.8684	-4.5	6.0	-0.2	11.9
9/24/2019	19:58:03	38.4015	-108.8693	-4.4	5.9	0.3	11.9
9/24/2019	20:52:30	38.4014	-108.8690	-4.4	5.9	0.3	11.9
9/24/2019	20:55:33	38.4014	-108.8683	-4.4	5.9	0.4	11.9
9/24/2019	23:19:42	38.4014	-108.8700	-4.3	5.8	0.5	11.8
9/24/2019	23:41:57	38.4015	-108.8682	-4.4	5.9	0.2	11.9
9/24/2019	23:42:57	38.4015	-108.8681	-4.4	5.9	0.2	11.9
9/24/2019	23:44:07	38.4012	-108.8679	-4.4	5.9	-0.3	11.9
9/25/2019	0:11:48	38.4014	-108.8694	-4.4	5.9	0.4	11.9
9/25/2019	0:20:48	38.4013	-108.8699	-4.3	5.8	-0.2	11.8
9/25/2019	0:21:14	38.4092	-108.8553	-3.8	5.3	-0.8	13.0
9/25/2019	0:47:30	38.4013	-108.8701	-4.3	5.8	0.2	11.8
9/25/2019	0:47:41	38.4014	-108.8695	-4.3	5.9	-0.3	11.8
9/25/2019	0:48:25	38.4013	-108.8694	-4.3	5.8	-0.4	11.8
9/25/2019	1:08:39	38.4014	-108.8701	-4.3	5.9	0.5	11.8
9/25/2019	1:20:16	38.4014	-108.8697	-4.3	5.9	0.8	11.8
9/25/2019	1:25:06	38.4014	-108.8695	-4.4	5.9	0.6	11.9
9/25/2019	1:25:43	38.4014	-108.8699	-4.3	5.9	-0.1	11.8
9/25/2019	1:43:23	38.4014	-108.8701	-4.3	5.8	0.2	11.8
9/25/2019	1:47:00	38.4014	-108.8698	-4.3	5.8	-0.2	11.8
9/25/2019	1:47:13	38.4015	-108.8692	-4.3	5.9	-0.7	11.9
9/25/2019	1:47:34	38.4013	-108.8691	-4.3	5.8	-0.3	11.8
9/25/2019	1:56:29	38.4014	-108.8687	-4.3	5.9	0.0	11.9
9/25/2019	1:56:55	38.4014	-108.8688	-4.3	5.9	0.4	11.9
9/25/2019	1:57:07	38.4080	-108.8588	-3.5	5.1	-0.8	12.8
9/25/2019	2:01:24	38.4014	-108.8691	-4.4	5.9	0.4	11.9
9/25/2019	2:01:28	38.4016	-108.8690	-4.3	5.9	-0.1	11.9
9/25/2019	2:02:25	38.4017	-108.8690	-4.3	5.9	-0.6	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/25/2019	2:15:46	38.4014	-108.8683	-4.4	5.9	-0.1	11.9
9/25/2019	2:48:43	38.4014	-108.8693	-4.3	5.9	-0.2	11.9
9/25/2019	3:20:06	38.4014	-108.8692	-4.3	5.9	0.5	11.9
9/25/2019	3:52:14	38.4015	-108.8693	-4.3	5.9	0.1	11.9
9/25/2019	3:53:25	38.4015	-108.8680	-4.4	5.9	0.1	11.9
9/25/2019	5:13:12	38.4013	-108.8702	-4.3	5.8	-0.1	11.8
9/25/2019	6:12:13	38.4016	-108.8697	-4.4	6.0	0.4	11.9
9/25/2019	6:37:28	38.4015	-108.8696	-4.4	5.9	0.3	11.9
9/25/2019	7:53:36	38.4014	-108.8703	-4.3	5.8	0.2	11.8
9/25/2019	7:54:21	38.4058	-108.8645	-4.4	5.9	-0.7	12.4
9/25/2019	8:00:59	38.4013	-108.8706	-4.2	5.8	0.6	11.8
9/25/2019	8:23:17	38.2856	-108.8993	-1.9	3.5	0.1	1.3
9/25/2019	8:25:16	38.4098	-108.8622	-3.6	5.2	-0.6	12.9
9/25/2019	9:03:57	38.4015	-108.8690	-4.3	5.8	-0.3	11.9
9/25/2019	9:21:02	38.4014	-108.8668	-4.5	6.0	0.2	11.9
9/25/2019	10:27:44	38.4015	-108.8681	-4.4	6.0	0.5	11.9
9/25/2019	11:30:47	38.4014	-108.8695	-4.3	5.9	-0.2	11.9
9/25/2019	11:40:16	38.4013	-108.8698	-4.3	5.8	0.1	11.8
9/25/2019	12:29:24	38.4014	-108.8692	-4.4	5.9	0.6	11.9
9/25/2019	12:35:12	38.4014	-108.8701	-4.3	5.8	1.1	11.8
9/25/2019	12:35:31	38.4012	-108.8704	-4.3	5.8	-0.5	11.8
9/25/2019	12:36:30	38.4013	-108.8704	-4.3	5.8	0.5	11.8
9/25/2019	12:36:36	38.4012	-108.8706	-4.3	5.8	-0.3	11.8
9/25/2019	12:42:01	38.4013	-108.8704	-4.3	5.8	-0.2	11.8
9/25/2019	12:47:05	38.4013	-108.8706	-4.3	5.8	0.4	11.8
9/25/2019	12:47:46	38.4013	-108.8707	-4.3	5.8	0.0	11.8
9/25/2019	12:48:08	38.4080	-108.8643	-4.0	5.5	-1.0	12.7
9/25/2019	13:11:46	38.4013	-108.8708	-4.3	5.8	1.4	11.8
9/25/2019	13:35:56	38.4012	-108.8708	-4.2	5.8	0.3	11.8
9/25/2019	13:45:39	38.4014	-108.8699	-4.3	5.8	0.2	11.8
9/25/2019	13:55:23	38.4008	-108.8668	-4.0	5.5	-0.4	11.8
9/25/2019	13:55:41	38.4015	-108.8698	-4.3	5.8	0.1	11.9
9/25/2019	13:56:55	38.4052	-108.8633	-4.1	5.6	-0.7	12.4
9/25/2019	14:31:55	38.4014	-108.8691	-4.3	5.8	1.2	11.9
9/25/2019	14:33:49	38.4013	-108.8699	-4.3	5.8	0.4	11.8
9/25/2019	14:55:22	38.4012	-108.8715	-4.2	5.7	-0.1	11.8
9/25/2019	15:53:38	38.4015	-108.8695	-4.5	6.0	-0.2	11.9
9/25/2019	15:57:33	38.4013	-108.8706	-4.3	5.8	0.6	11.8
9/25/2019	15:58:02	38.4015	-108.8706	-4.3	5.8	-0.5	11.8
9/25/2019	16:15:30	38.4013	-108.8711	-4.2	5.8	0.0	11.8
9/25/2019	16:17:48	38.4016	-108.8706	-4.3	5.9	-0.2	11.9
9/25/2019	16:24:46	38.4015	-108.8701	-4.3	5.9	0.0	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/25/2019	16:26:10	38.4016	-108.8700	-4.4	5.9	-0.2	11.9
9/25/2019	16:26:44	38.4015	-108.8701	-4.4	5.9	0.6	11.8
9/25/2019	16:28:28	38.4016	-108.8698	-4.4	5.9	1.0	11.9
9/25/2019	16:29:43	38.4015	-108.8706	-4.4	5.9	0.5	11.8
9/25/2019	16:30:02	38.4016	-108.8705	-4.4	5.9	-0.6	11.9
9/25/2019	16:30:14	38.4016	-108.8703	-4.4	5.9	-0.3	11.9
9/25/2019	16:31:29	38.4014	-108.8698	-4.3	5.8	-0.1	11.8
9/25/2019	16:32:21	38.4015	-108.8703	-4.4	5.9	1.3	11.9
9/25/2019	16:34:47	38.4016	-108.8690	-4.4	5.9	0.3	11.9
9/25/2019	16:44:37	38.4015	-108.8709	-4.3	5.9	0.5	11.8
9/25/2019	16:45:42	38.4015	-108.8700	-4.4	5.9	1.5	11.9
9/25/2019	16:49:07	38.4014	-108.8706	-4.3	5.8	0.0	11.8
9/25/2019	16:50:31	38.4015	-108.8707	-4.4	5.9	-0.2	11.8
9/25/2019	16:52:16	38.4015	-108.8708	-4.3	5.9	0.8	11.8
9/25/2019	16:55:09	38.4015	-108.8709	-4.4	5.9	0.1	11.8
9/25/2019	16:55:36	38.4014	-108.8710	-4.3	5.9	-0.2	11.8
9/25/2019	17:01:56	38.4015	-108.8710	-4.4	5.9	0.5	11.8
9/25/2019	17:04:59	38.4015	-108.8707	-4.4	5.9	0.7	11.8
9/25/2019	17:05:25	38.4014	-108.8708	-4.3	5.8	-0.7	11.8
9/25/2019	17:05:32	38.4016	-108.8703	-4.4	5.9	-0.5	11.9
9/25/2019	17:10:04	38.4048	-108.8675	-4.3	5.8	-0.9	12.3
9/25/2019	17:10:23	38.4015	-108.8706	-4.4	5.9	0.5	11.8
9/25/2019	17:11:02	38.4178	-108.8537	-2.6	4.1	-1.0	13.9
9/25/2019	17:11:21	38.4015	-108.8704	-4.4	5.9	-0.6	11.9
9/25/2019	17:12:15	38.4012	-108.8692	-4.4	6.0	-0.7	11.8
9/25/2019	17:16:51	38.4014	-108.8703	-4.3	5.8	0.4	11.8
9/25/2019	17:25:36	38.4016	-108.8694	-4.4	6.0	0.1	11.9
9/25/2019	17:59:09	38.4013	-108.8712	-4.2	5.8	0.1	11.8
9/25/2019	18:00:47	38.4012	-108.8715	-4.2	5.7	0.4	11.8
9/25/2019	18:01:08	38.4062	-108.8628	-4.2	5.7	-1.0	12.5
9/25/2019	18:20:11	38.4039	-108.8686	-4.6	6.1	0.3	12.1
9/25/2019	18:40:00	38.4016	-108.8697	-4.5	6.0	-0.7	11.9
9/25/2019	18:40:12	38.4016	-108.8693	-4.5	6.0	0.4	11.9
9/25/2019	18:50:03	38.4038	-108.8685	-4.5	6.1	0.1	12.1
9/25/2019	19:25:46	38.4016	-108.8704	-4.4	5.9	-0.8	11.9
9/25/2019	19:25:56	38.4016	-108.8701	-4.4	5.9	0.4	11.9
9/25/2019	19:28:18	38.4015	-108.8700	-4.4	5.9	0.3	11.9
9/25/2019	19:30:53	38.4067	-108.8635	-4.1	5.6	-0.1	12.5
9/25/2019	20:22:34	38.4016	-108.8698	-4.4	6.0	1.4	11.9
9/25/2019	21:18:41	38.4016	-108.8690	-4.4	5.9	0.5	11.9
9/25/2019	21:26:35	38.4013	-108.8698	-4.4	5.9	-0.8	11.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/25/2019	21:29:02	38.4038	-108.8688	-4.5	6.1	-0.4	12.1
9/25/2019	22:00:07	38.4073	-108.8623	-3.8	5.3	-0.3	12.6
9/25/2019	22:10:36	38.4016	-108.8694	-4.5	6.0	-0.3	11.9
9/25/2019	22:12:00	38.4087	-108.8658	-4.2	5.8	-0.3	12.7
9/25/2019	22:14:48	38.4015	-108.8709	-4.4	5.9	-0.2	11.8
9/25/2019	22:26:35	38.4037	-108.8685	-4.5	6.0	-0.1	12.1
9/25/2019	22:30:18	38.4013	-108.8702	-4.3	5.8	-0.5	11.8
9/25/2019	22:30:31	38.4013	-108.8702	-4.3	5.8	-0.7	11.8
9/25/2019	22:31:48	38.4013	-108.8701	-4.3	5.8	0.2	11.8
9/25/2019	22:32:27	38.4014	-108.8656	-4.5	6.0	0.4	11.9
9/25/2019	22:33:37	38.4039	-108.8685	-4.6	6.1	-0.4	12.1
9/25/2019	22:34:05	38.4015	-108.8712	-4.4	5.9	1.7	11.8
9/25/2019	22:34:44	38.4014	-108.8703	-4.3	5.8	-0.7	11.8
9/25/2019	22:34:56	38.4013	-108.8699	-4.3	5.8	-0.8	11.8
9/25/2019	22:36:17	38.4015	-108.8706	-4.4	5.9	-0.4	11.8
9/25/2019	22:36:36	38.4012	-108.8713	-4.4	5.9	-0.5	11.8
9/25/2019	22:37:36	38.4013	-108.8698	-4.3	5.8	0.2	11.8
9/25/2019	22:38:07	38.4015	-108.8706	-4.4	5.9	-0.4	11.8
9/25/2019	22:41:53	38.4015	-108.8711	-4.4	5.9	1.2	11.8
9/25/2019	22:42:49	38.4080	-108.8627	-3.9	5.5	-0.9	12.7
9/25/2019	22:43:02	38.4015	-108.8711	-4.3	5.8	-0.6	11.8
9/25/2019	22:43:08	38.4045	-108.8640	-3.9	5.4	-1.2	12.3
9/25/2019	22:43:13	38.4014	-108.8709	-4.3	5.8	-0.5	11.8
9/25/2019	22:43:24	38.4037	-108.8652	-3.9	5.4	-0.9	12.2
9/25/2019	22:47:40	38.4015	-108.8711	-4.3	5.9	0.0	11.8
9/25/2019	23:50:03	38.4016	-108.8702	-4.4	5.9	0.3	11.9
9/25/2019	23:53:56	38.4015	-108.8689	-4.4	5.9	1.1	11.9
9/25/2019	23:55:44	38.4014	-108.8689	-4.4	5.9	-1.0	11.9
9/26/2019	0:47:43	38.4013	-108.8709	-4.2	5.8	0.7	11.8
9/26/2019	0:49:20	38.4043	-108.8652	-4.0	5.5	-1.1	12.2
9/26/2019	1:07:33	38.4012	-108.8716	-4.2	5.8	0.5	11.8
9/26/2019	1:45:42	38.4037	-108.8690	-4.5	6.0	-0.2	12.1
9/26/2019	1:47:18	38.4016	-108.8719	-4.4	5.9	0.4	11.8
9/26/2019	1:47:22	38.4036	-108.8687	-4.5	6.0	-0.2	12.1
9/26/2019	1:48:45	38.4038	-108.8691	-4.5	6.0	0.5	12.1
9/26/2019	1:50:22	38.4036	-108.8695	-4.5	6.0	-0.2	12.1
9/26/2019	2:02:42	38.4037	-108.8687	-4.5	6.0	0.3	12.1
9/26/2019	2:26:15	38.4016	-108.8696	-4.4	6.0	1.7	11.9
9/26/2019	2:38:29	38.4014	-108.8703	-4.3	5.8	0.1	11.8
9/26/2019	2:39:22	38.4013	-108.8699	-4.3	5.8	-0.7	11.8
9/26/2019	3:04:04	38.4014	-108.8712	-4.4	5.9	1.2	11.8
9/26/2019	3:04:11	38.4015	-108.8671	-4.5	6.0	0.0	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/26/2019	3:05:16	38.4152	-108.8573	-3.8	5.3	-1.0	13.6
9/26/2019	3:06:46	38.4058	-108.8618	-3.7	5.2	-0.8	12.5
9/26/2019	5:15:10	38.4042	-108.8613	-3.9	5.4	-1.1	12.3
9/26/2019	5:15:17	38.3945	-108.8738	-3.8	5.3	-1.1	11.0
9/26/2019	5:15:26	38.4055	-108.8598	-3.7	5.2	-0.8	12.5
9/26/2019	5:15:42	38.4017	-108.8683	-4.5	6.0	-0.8	11.9
9/26/2019	5:15:53	38.4016	-108.8683	-4.4	6.0	-0.5	11.9
9/26/2019	5:16:13	38.4015	-108.8690	-4.4	6.0	-1.0	11.9
9/26/2019	5:16:20	38.4016	-108.8684	-4.5	6.0	0.7	11.9
9/26/2019	5:16:34	38.4015	-108.8681	-4.4	6.0	-0.8	11.9
9/26/2019	5:17:01	38.4017	-108.8679	-4.5	6.0	1.2	11.9
9/26/2019	5:17:43	38.4018	-108.8684	-4.5	6.0	-0.3	11.9
9/26/2019	5:18:05	38.4063	-108.8592	-3.7	5.3	-0.8	12.6
9/26/2019	5:18:55	38.4016	-108.8685	-4.4	6.0	0.4	11.9
9/26/2019	5:19:29	38.4098	-108.8583	-3.6	5.2	-1.3	13.0
9/26/2019	5:19:34	38.4016	-108.8688	-4.4	6.0	1.6	11.9
9/26/2019	5:20:33	38.4016	-108.8689	-4.4	5.9	0.7	11.9
9/26/2019	5:20:56	38.4017	-108.8682	-4.5	6.0	-0.5	11.9
9/26/2019	5:22:14	38.4016	-108.8685	-4.5	6.0	0.2	11.9
9/26/2019	5:22:41	38.4014	-108.8676	-4.4	6.0	-0.3	11.9
9/26/2019	5:23:55	38.4097	-108.8583	-3.5	5.1	-1.3	13.0
9/26/2019	5:31:47	38.4014	-108.8699	-4.4	5.9	0.5	11.8
9/26/2019	5:32:10	38.4014	-108.8695	-4.4	5.9	0.9	11.8
9/26/2019	5:34:53	38.4016	-108.8686	-4.4	5.9	0.4	11.9
9/26/2019	6:22:35	38.4016	-108.8682	-4.4	5.9	1.3	11.9
9/26/2019	8:46:53	38.4016	-108.8691	-4.5	6.0	0.3	11.9
9/26/2019	8:51:44	38.4015	-108.8704	-4.4	5.9	0.0	11.8
9/26/2019	11:26:53	38.4016	-108.8673	-4.5	6.0	0.5	11.9
9/26/2019	12:22:19	38.4015	-108.8704	-4.4	5.9	0.9	11.9
9/26/2019	12:37:45	38.4012	-108.8717	-4.2	5.7	0.1	11.8
9/26/2019	12:41:52	38.4012	-108.8715	-4.2	5.7	0.3	11.8
9/26/2019	13:00:53	38.4012	-108.8713	-4.2	5.7	0.0	11.8
9/26/2019	13:49:41	38.4012	-108.8720	-4.2	5.7	-0.2	11.8
9/26/2019	13:49:54	38.4012	-108.8719	-4.2	5.7	0.5	11.8
9/26/2019	13:51:59	38.4053	-108.8608	-3.7	5.2	-0.9	12.4
9/26/2019	14:17:05	38.4017	-108.8690	-4.5	6.0	1.8	11.9
9/26/2019	14:25:06	38.4013	-108.8708	-4.3	5.8	1.1	11.8
9/26/2019	14:25:46	38.4013	-108.8711	-4.3	5.8	-0.7	11.8
9/26/2019	14:26:22	38.4093	-108.8585	-3.3	4.8	-1.3	12.9
9/26/2019	14:26:36	38.4013	-108.8713	-4.3	5.8	1.2	11.8
9/26/2019	14:26:53	38.4014	-108.8711	-4.3	5.8	-1.1	11.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/26/2019	14:27:57	38.4012	-108.8567	-3.3	4.8	-0.7	12.1
9/26/2019	14:31:47	38.4014	-108.8697	-4.3	5.9	0.1	11.8
9/26/2019	14:53:45	38.4012	-108.8714	-4.2	5.8	0.1	11.8
9/26/2019	15:05:10	38.4014	-108.8709	-4.3	5.8	0.4	11.8
9/26/2019	15:16:47	38.4013	-108.8721	-4.3	5.8	0.2	11.8
9/26/2019	17:15:45	38.4037	-108.8714	-4.4	5.9	0.1	12.1
9/26/2019	18:49:56	38.4037	-108.8715	-4.3	5.9	-0.1	12.1
9/26/2019	18:51:33	38.4036	-108.8712	-4.4	5.9	-0.7	12.1
9/27/2019	0:20:38	38.4015	-108.8694	-4.4	5.9	0.4	11.9
9/27/2019	0:23:50	38.2757	-108.9338	2.5	-0.9	0.6	4.1
9/27/2019	3:50:35	38.4014	-108.8701	-4.3	5.8	0.1	11.8
9/27/2019	4:01:09	38.4013	-108.8705	-4.3	5.8	0.4	11.8
9/27/2019	4:12:54	38.4013	-108.8708	-4.2	5.8	-0.2	11.8
9/27/2019	4:46:47	38.4013	-108.8711	-4.2	5.7	0.3	11.8
9/27/2019	5:18:16	38.4012	-108.8716	-4.2	5.7	1.4	11.8
9/27/2019	5:52:51	38.4012	-108.8724	-4.2	5.7	0.1	11.8
9/27/2019	5:58:24	38.4012	-108.8721	-4.2	5.8	0.7	11.8
9/27/2019	7:25:35	38.4013	-108.8709	-4.3	5.8	0.2	11.8
9/27/2019	8:07:33	38.4016	-108.8705	-4.4	5.9	0.1	11.9
9/27/2019	9:56:59	38.2827	-108.9064	-2.0	3.6	-0.1	1.8
9/27/2019	10:50:49	38.2827	-108.9064	-2.0	3.5	0.0	1.8
9/27/2019	12:47:34	38.4014	-108.8716	-4.3	5.8	1.6	11.8
9/27/2019	12:53:44	38.4014	-108.8714	-4.3	5.9	1.4	11.8
9/27/2019	13:03:09	38.4014	-108.8718	-4.3	5.8	0.2	11.8
9/27/2019	13:07:42	38.4015	-108.8708	-4.4	5.9	0.0	11.8
9/27/2019	13:19:39	38.4014	-108.8721	-4.3	5.8	-0.2	11.8
9/27/2019	13:29:10	38.4013	-108.8717	-4.3	5.8	0.5	11.8
9/27/2019	13:41:00	38.4016	-108.8706	-4.4	5.9	2.0	11.8
9/27/2019	13:41:21	38.4033	-108.8665	-4.2	5.7	-0.9	12.1
9/27/2019	13:41:30	38.4015	-108.8711	-4.3	5.9	-0.4	11.8
9/27/2019	13:41:57	38.4015	-108.8707	-4.4	5.9	-0.3	11.8
9/27/2019	13:43:15	38.4055	-108.8628	-4.1	5.6	-1.0	12.4
9/27/2019	13:43:38	38.4013	-108.8707	-4.3	5.8	0.1	11.8
9/27/2019	13:44:00	38.4016	-108.8699	-4.4	5.9	0.0	11.9
9/27/2019	13:44:03	38.4015	-108.8711	-4.4	5.9	0.5	11.8
9/27/2019	13:44:16	38.4012	-108.8718	-4.3	5.8	-0.6	11.8
9/27/2019	13:44:59	38.4015	-108.8701	-4.4	5.9	0.0	11.9
9/27/2019	13:45:03	38.4015	-108.8703	-4.4	5.9	0.2	11.9
9/27/2019	13:45:44	38.4014	-108.8707	-4.3	5.8	-0.3	11.8
9/27/2019	13:45:59	38.4014	-108.8720	-4.3	5.8	-0.3	11.8
9/27/2019	13:51:29	38.4016	-108.8690	-4.5	6.0	-0.2	11.9
9/27/2019	13:55:04	38.4014	-108.8716	-4.3	5.8	0.0	11.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/27/2019	14:23:18	38.4015	-108.8712	-4.3	5.8	2.0	11.8
9/27/2019	14:25:44	38.4014	-108.8710	-4.3	5.8	-0.6	11.8
9/27/2019	14:28:26	38.4014	-108.8709	-4.3	5.8	-0.7	11.8
9/27/2019	14:28:46	38.4014	-108.8708	-4.3	5.8	2.1	11.8
9/27/2019	14:29:36	38.4014	-108.8696	-4.4	5.9	-0.9	11.8
9/27/2019	14:30:11	38.4013	-108.8715	-4.3	5.8	0.6	11.8
9/27/2019	14:30:51	38.4012	-108.8721	-4.3	5.8	0.2	11.8
9/27/2019	14:32:22	38.4072	-108.8637	-3.8	5.3	-0.5	12.6
9/27/2019	14:32:46	38.4015	-108.8707	-4.3	5.8	-0.6	11.8
9/27/2019	14:33:34	38.4013	-108.8723	-4.2	5.8	-0.9	11.8
9/27/2019	14:34:40	38.4013	-108.8707	-4.2	5.8	-0.4	11.8
9/27/2019	14:39:12	38.4014	-108.8719	-4.3	5.8	0.6	11.8
9/27/2019	15:01:17	38.4011	-108.8727	-4.2	5.7	-0.1	11.8
9/27/2019	15:01:42	38.4014	-108.8728	-4.3	5.8	-0.9	11.8
9/27/2019	15:01:53	38.4016	-108.8693	-4.4	5.9	0.6	11.9
9/27/2019	15:06:20	38.4015	-108.8697	-4.4	5.9	0.6	11.9
9/27/2019	15:22:30	38.4012	-108.8726	-4.2	5.8	0.8	11.8
9/27/2019	15:25:07	38.4014	-108.8724	-4.2	5.8	-0.5	11.8
9/27/2019	15:25:20	38.4014	-108.8729	-4.3	5.8	-1.1	11.8
9/27/2019	15:30:09	38.4015	-108.8707	-4.4	5.9	-1.6	11.8
9/27/2019	15:30:10	38.4016	-108.8707	-4.4	5.9	0.4	11.8
9/27/2019	15:44:16	38.4014	-108.8720	-4.3	5.8	-0.5	11.8
9/27/2019	15:44:27	38.4012	-108.8728	-4.2	5.7	-0.1	11.8
9/27/2019	15:52:49	38.4014	-108.8724	-4.3	5.8	-0.2	11.8
9/27/2019	15:53:06	38.4052	-108.8700	-4.0	5.6	-1.1	12.3
9/27/2019	15:53:12	38.4016	-108.8722	-4.3	5.8	-0.8	11.8
9/27/2019	15:58:26	38.4012	-108.8732	-4.2	5.7	0.0	11.8
9/27/2019	16:03:11	38.4012	-108.8726	-4.2	5.7	0.3	11.8
9/27/2019	16:16:58	38.4013	-108.8731	-4.2	5.8	-0.9	11.8
9/27/2019	16:17:05	38.4013	-108.8729	-4.2	5.8	-0.3	11.8
9/27/2019	16:17:16	38.4062	-108.8633	-3.9	5.4	-1.1	12.5
9/27/2019	16:26:45	38.4013	-108.8725	-4.3	5.8	0.5	11.8
9/27/2019	16:27:50	38.4013	-108.8722	-4.3	5.8	1.1	11.8
9/27/2019	16:28:06	38.4014	-108.8725	-4.3	5.8	0.3	11.8
9/27/2019	16:30:20	38.4013	-108.8727	-4.3	5.8	1.6	11.8
9/27/2019	16:46:44	38.4013	-108.8730	-4.2	5.8	-0.2	11.8
9/27/2019	16:47:23	38.4012	-108.8722	-4.2	5.7	0.3	11.8
9/27/2019	16:48:03	38.4020	-108.8732	-2.9	4.4	-0.6	11.9
9/27/2019	19:14:40	38.4014	-108.8718	-4.3	5.8	1.3	11.8
9/27/2019	19:16:03	38.4014	-108.8717	-4.3	5.8	0.1	11.8
9/27/2019	19:16:34	38.4014	-108.8722	-4.3	5.8	-0.7	11.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/27/2019	19:36:18	38.4012	-108.8726	-4.2	5.8	0.0	11.8
9/27/2019	19:36:28	38.4012	-108.8728	-4.2	5.8	-0.1	11.8
9/27/2019	19:50:19	38.4012	-108.8733	-4.2	5.7	-0.4	11.8
9/27/2019	19:51:03	38.4012	-108.8735	-4.2	5.7	0.0	11.8
9/27/2019	20:04:52	38.4014	-108.8717	-4.3	5.9	0.1	11.8
9/27/2019	21:26:32	38.4012	-108.8723	-4.2	5.7	-0.3	11.8
9/27/2019	22:07:16	38.4012	-108.8731	-4.2	5.7	0.3	11.8
9/27/2019	22:07:29	38.4012	-108.8732	-4.2	5.7	-0.9	11.8
9/27/2019	22:07:43	38.4011	-108.8733	-4.2	5.7	-0.7	11.8
9/27/2019	22:08:46	38.4010	-108.8729	-4.1	5.6	-0.6	11.8
9/27/2019	22:21:09	38.4011	-108.8731	-4.2	5.7	1.0	11.8
9/27/2019	22:22:01	38.4012	-108.8732	-4.2	5.7	-0.8	11.8
9/27/2019	22:22:09	38.4011	-108.8734	-4.2	5.7	0.3	11.8
9/27/2019	22:25:06	38.4011	-108.8730	-4.2	5.7	1.0	11.8
9/27/2019	22:25:12	38.4010	-108.8730	-4.1	5.7	-1.0	11.8
9/27/2019	22:25:46	38.4011	-108.8729	-4.2	5.7	-0.1	11.8
9/27/2019	22:26:09	38.4012	-108.8731	-4.2	5.7	-0.5	11.8
9/27/2019	22:27:38	38.4008	-108.8648	-3.3	4.8	-1.0	11.9
9/27/2019	22:32:33	38.4012	-108.8728	-4.1	5.7	0.2	11.8
9/27/2019	22:34:32	38.4012	-108.8730	-4.1	5.6	-0.5	11.8
9/27/2019	22:34:48	38.4011	-108.8735	-4.1	5.7	-0.1	11.8
9/27/2019	22:40:30	38.4012	-108.8720	-4.2	5.7	-0.6	11.8
9/27/2019	22:45:25	38.4011	-108.8727	-4.1	5.7	-0.1	11.8
9/27/2019	22:46:24	38.4012	-108.8729	-4.2	5.8	-0.3	11.8
9/27/2019	22:55:05	38.4012	-108.8736	-4.1	5.7	-0.6	11.8
9/27/2019	22:59:33	38.4013	-108.8719	-4.2	5.7	-0.2	11.8
9/28/2019	3:21:43	38.4014	-108.8736	-4.2	5.8	0.2	11.8
9/28/2019	3:56:11	38.4014	-108.8720	-4.2	5.7	-0.2	11.8
9/28/2019	5:14:46	38.4014	-108.8723	-4.3	5.8	1.0	11.8
9/28/2019	7:24:44	38.4015	-108.8693	-4.3	5.9	0.2	11.9
9/28/2019	7:44:49	38.4015	-108.8689	-4.3	5.9	-0.1	11.9
9/28/2019	7:45:14	38.4014	-108.8693	-4.3	5.9	-0.1	11.9
9/28/2019	7:46:56	38.4014	-108.8689	-4.4	5.9	1.1	11.9
9/28/2019	7:48:49	38.4014	-108.8692	-4.4	5.9	-0.6	11.9
9/28/2019	7:50:00	38.4013	-108.8734	-4.2	5.7	0.5	11.8
9/28/2019	11:11:47	38.4012	-108.8728	-4.2	5.7	-0.1	11.8
9/28/2019	14:25:07	38.2820	-108.9085	-2.0	3.6	-0.4	2.0
9/28/2019	15:08:13	38.4016	-108.8676	-4.4	5.9	0.6	11.9
9/28/2019	15:19:16	38.4016	-108.8678	-4.4	5.9	-0.2	11.9
9/28/2019	15:23:21	38.4016	-108.8679	-4.4	5.9	0.2	11.9
9/28/2019	15:45:25	38.4015	-108.8683	-4.4	5.9	0.0	11.9
9/28/2019	15:45:35	38.4015	-108.8681	-4.4	5.9	-0.7	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
9/29/2019	4:00:06	38.4012	-108.8741	-4.2	5.7	0.1	11.8
9/29/2019	6:32:47	38.4011	-108.8737	-4.1	5.6	-0.2	11.8
9/29/2019	6:38:01	38.4011	-108.8734	-4.1	5.6	0.0	11.8
9/29/2019	6:56:34	38.4011	-108.8741	-4.2	5.7	0.1	11.7
9/29/2019	11:04:18	38.4013	-108.8717	-4.3	5.8	0.2	11.8
9/29/2019	11:33:25	38.4012	-108.8719	-4.2	5.7	0.2	11.8
9/29/2019	11:46:05	38.4012	-108.8727	-4.2	5.8	0.5	11.8
9/29/2019	11:54:48	38.4014	-108.8716	-4.3	5.8	0.0	11.8
9/29/2019	11:58:06	38.4012	-108.8724	-4.2	5.8	0.4	11.8
9/30/2019	3:41:52	38.4017	-108.8678	-4.4	5.9	0.0	11.9
9/30/2019	5:37:39	38.4017	-108.8684	-4.5	6.0	0.4	11.9
9/30/2019	5:48:26	38.4015	-108.8690	-4.4	5.9	0.3	11.9
9/30/2019	8:08:12	38.4016	-108.8698	-4.4	5.9	-0.1	11.9
9/30/2019	11:15:49	38.4018	-108.8677	-4.6	6.1	0.1	11.9
9/30/2019	18:33:26	38.4016	-108.8713	-4.4	5.9	0.7	11.8
10/1/2019	10:17:43	38.4035	-108.8696	-4.4	5.9	0.8	12.1
10/1/2019	10:54:37	38.4036	-108.8699	-4.4	5.9	0.1	12.1
10/1/2019	11:03:49	38.4039	-108.8711	-4.4	5.9	0.6	12.1
10/1/2019	12:26:26	38.4039	-108.8708	-4.4	5.9	-0.1	12.1
10/1/2019	17:35:08	38.4097	-108.8718	-4.4	6.0	-0.5	12.7
10/1/2019	21:14:00	38.2830	-108.9057	-2.0	3.5	0.0	1.8
10/1/2019	22:28:34	38.4016	-108.8741	-4.3	5.8	0.3	11.8
10/1/2019	23:49:49	38.4015	-108.8736	-4.3	5.8	1.4	11.8
10/2/2019	0:08:52	38.4014	-108.8738	-4.3	5.8	-0.6	11.8
10/2/2019	0:09:13	38.4014	-108.8745	-4.2	5.8	0.2	11.8
10/2/2019	0:12:07	38.4012	-108.8734	-4.2	5.7	-1.0	11.8
10/2/2019	0:24:08	38.2830	-108.9054	-2.0	3.5	-0.8	1.8
10/2/2019	0:32:43	38.4014	-108.8743	-4.2	5.8	0.7	11.8
10/2/2019	0:34:15	38.4014	-108.8749	-4.2	5.8	0.6	11.8
10/2/2019	0:35:05	38.4014	-108.8742	-4.3	5.8	0.2	11.8
10/2/2019	0:36:26	38.4014	-108.8739	-4.2	5.8	0.1	11.8
10/2/2019	0:37:36	38.4015	-108.8741	-4.3	5.8	0.0	11.8
10/2/2019	0:38:31	38.4015	-108.8744	-4.3	5.8	0.8	11.8
10/2/2019	0:43:29	38.4015	-108.8744	-4.3	5.8	0.5	11.8
10/2/2019	0:45:05	38.4014	-108.8746	-4.3	5.8	0.6	11.8
10/2/2019	0:46:37	38.4014	-108.8746	-4.3	5.8	0.1	11.8
10/2/2019	0:47:47	38.4014	-108.8748	-4.3	5.8	0.5	11.8
10/2/2019	0:51:52	38.4015	-108.8749	-4.3	5.8	0.2	11.8
10/2/2019	0:59:45	38.4016	-108.8737	-4.3	5.8	0.0	11.8
10/2/2019	1:00:11	38.2830	-108.9045	-2.0	3.5	-0.7	1.7
10/2/2019	1:29:49	38.4015	-108.8746	-4.3	5.8	0.2	11.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
10/2/2019	1:30:05	38.4013	-108.8740	-4.3	5.8	-0.2	11.8
10/2/2019	1:31:15	38.4015	-108.8738	-4.3	5.8	-0.1	11.8
10/2/2019	1:42:18	38.4010	-108.8748	-4.2	5.7	-0.2	11.7
10/2/2019	1:42:49	38.4014	-108.8747	-4.3	5.8	0.4	11.8
10/2/2019	2:04:39	38.4013	-108.8743	-4.2	5.7	0.3	11.8
10/2/2019	2:06:28	38.4009	-108.8745	-4.2	5.7	-0.2	11.7
10/2/2019	2:08:37	38.4016	-108.8747	-4.3	5.8	0.2	11.8
10/2/2019	2:18:33	38.4014	-108.8717	-4.3	5.8	1.1	11.8
10/2/2019	2:23:33	38.4014	-108.8719	-4.3	5.8	0.4	11.8
10/2/2019	2:48:52	38.4063	-108.8663	-3.4	4.9	0.2	12.4
10/2/2019	2:59:34	38.4013	-108.8745	-4.2	5.7	0.5	11.8
10/2/2019	2:59:53	38.4040	-108.8680	-3.3	4.8	-0.8	12.2
10/2/2019	3:00:37	38.4140	-108.8687	-3.6	5.2	-0.3	13.2
10/2/2019	3:13:52	38.4014	-108.8721	-4.3	5.8	0.5	11.8
10/2/2019	3:14:03	38.4015	-108.8724	-4.3	5.8	-0.7	11.8
10/2/2019	3:15:11	38.4012	-108.8725	-4.3	5.8	0.8	11.8
10/2/2019	3:15:31	38.4012	-108.8726	-4.3	5.8	-0.1	11.8
10/2/2019	3:15:54	38.4013	-108.8729	-4.3	5.8	0.0	11.8
10/2/2019	3:16:19	38.4140	-108.8745	-3.8	5.4	-0.9	13.2
10/2/2019	3:17:10	38.4012	-108.8730	-4.2	5.8	-0.1	11.8
10/2/2019	3:17:44	38.4012	-108.8729	-4.2	5.8	1.2	11.8
10/2/2019	3:18:47	38.4013	-108.8718	-4.3	5.8	0.4	11.8
10/2/2019	3:19:28	38.4013	-108.8728	-4.2	5.8	-0.1	11.8
10/2/2019	3:19:36	38.4042	-108.8665	-3.7	5.2	-0.5	12.2
10/2/2019	3:20:00	38.4012	-108.8719	-4.3	5.8	-0.4	11.8
10/2/2019	3:20:32	38.4013	-108.8721	-4.3	5.8	0.1	11.8
10/2/2019	3:28:33	38.4014	-108.8720	-4.3	5.8	-0.2	11.8
10/2/2019	3:57:58	38.4011	-108.8750	-4.1	5.7	0.6	11.7
10/2/2019	4:56:44	38.4016	-108.8747	-4.3	5.8	0.1	11.8
10/2/2019	5:10:03	38.4015	-108.8742	-4.2	5.8	-0.4	11.8
10/2/2019	5:20:08	38.4015	-108.8744	-4.3	5.8	0.3	11.8
10/2/2019	5:20:17	38.4043	-108.8677	-3.7	5.2	-0.9	12.2
10/2/2019	5:39:30	38.4013	-108.8746	-4.2	5.7	0.3	11.8
10/2/2019	5:55:50	38.4013	-108.8746	-4.2	5.7	0.7	11.8
10/2/2019	5:58:25	38.4015	-108.8749	-4.3	5.8	0.4	11.8
10/2/2019	6:00:27	38.4011	-108.8738	-4.1	5.7	0.3	11.7
10/2/2019	6:01:13	38.4021	-108.8731	-4.3	5.8	-0.6	11.9
10/2/2019	6:11:52	38.4015	-108.8745	-4.3	5.8	0.4	11.8
10/2/2019	6:18:28	38.4014	-108.8749	-4.3	5.8	0.5	11.8
10/2/2019	6:25:26	38.4014	-108.8749	-4.2	5.8	0.2	11.8
10/2/2019	6:29:44	38.4014	-108.8746	-4.2	5.8	0.5	11.8
10/2/2019	6:33:07	38.4013	-108.8736	-4.2	5.8	0.4	11.8

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
10/2/2019	7:27:55	38.4011	-108.8752	-4.1	5.6	0.5	11.7
10/2/2019	8:08:53	38.4013	-108.8740	-4.2	5.7	0.3	11.8
10/2/2019	8:15:07	38.4013	-108.8750	-4.2	5.7	0.1	11.8
10/2/2019	9:21:49	38.4016	-108.8739	-4.3	5.9	1.7	11.8
10/2/2019	9:35:18	38.4015	-108.8737	-4.3	5.8	0.4	11.8
10/2/2019	9:35:51	38.4014	-108.8737	-4.3	5.8	-0.2	11.8
10/2/2019	9:38:53	38.4015	-108.8736	-4.3	5.8	0.1	11.8
10/2/2019	10:13:23	38.2828	-108.9061	-2.0	3.6	-0.6	1.8
10/2/2019	10:43:29	38.4012	-108.8741	-4.2	5.7	0.8	11.8
10/2/2019	10:53:51	38.4012	-108.8732	-4.2	5.7	0.1	11.8
10/2/2019	13:25:41	38.4015	-108.8661	-4.5	6.0	0.1	11.9
10/2/2019	18:54:58	38.4013	-108.8751	-4.1	5.6	-0.2	11.8
10/2/2019	19:14:07	38.4058	-108.8648	-3.9	5.4	-0.8	12.4
10/2/2019	19:14:13	38.4011	-108.8751	-4.0	5.6	-0.1	11.7
10/2/2019	19:14:23	38.4153	-108.8777	-3.8	5.3	-1.3	13.3
10/2/2019	19:38:13	38.4030	-108.8635	-2.9	4.5	-0.2	12.1
10/2/2019	22:10:24	38.4008	-108.8744	-4.1	5.6	0.0	11.7
10/2/2019	22:12:26	38.4013	-108.8752	-4.1	5.7	0.1	11.8
10/3/2019	4:04:58	38.4039	-108.8710	-4.4	5.9	-0.2	12.1
10/3/2019	13:12:22	38.4016	-108.8708	-4.4	5.9	2.4	11.8
10/3/2019	13:12:52	38.4015	-108.8709	-4.3	5.9	-0.8	11.8
10/3/2019	13:15:09	38.4016	-108.8703	-4.4	5.9	0.1	11.9
10/3/2019	13:15:34	38.4075	-108.8642	-3.9	5.4	-0.9	12.6
10/3/2019	13:17:52	38.4015	-108.8702	-4.4	5.9	-0.2	11.9
10/3/2019	13:18:40	38.4112	-108.8610	-3.8	5.3	-0.7	13.1
10/3/2019	13:18:50	38.4078	-108.9107	-4.3	5.8	-1.0	12.4
10/3/2019	13:19:13	38.4108	-108.8688	-4.1	5.6	-0.9	12.9
10/3/2019	13:21:07	38.4016	-108.8699	-4.4	6.0	1.8	11.9
10/3/2019	13:22:06	38.4015	-108.8708	-4.3	5.9	-0.3	11.8
10/3/2019	13:23:40	38.4040	-108.8623	-3.7	5.3	-0.6	12.3
10/3/2019	13:34:09	38.4016	-108.8694	-4.4	6.0	1.0	11.9
10/3/2019	13:35:01	38.4013	-108.8712	-4.3	5.8	-0.4	11.8
10/3/2019	13:36:31	38.4012	-108.8700	-4.3	5.8	-0.4	11.8
10/3/2019	13:46:11	38.4014	-108.8693	-4.4	5.9	0.5	11.9
10/3/2019	13:47:05	38.4014	-108.8698	-4.3	5.9	0.7	11.8
10/3/2019	14:07:37	38.4015	-108.8701	-4.4	5.9	1.1	11.9
10/3/2019	14:14:36	38.4048	-108.8628	-3.7	5.3	-0.8	12.3
10/3/2019	18:27:07	38.4014	-108.8710	-4.3	5.9	0.0	11.8
10/3/2019	18:31:28	38.4015	-108.8712	-4.4	5.9	-0.1	11.8
10/4/2019	3:38:30	38.2774	-108.9241	-1.4	3.0	-0.3	3.3
10/4/2019	6:36:36	38.4016	-108.8703	-4.4	6.0	0.2	11.9

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
10/4/2019	6:47:37	38.4014	-108.8702	-4.3	5.9	0.0	11.8
10/4/2019	7:44:00	38.2861	-108.8985	-1.9	3.5	0.0	1.2
10/4/2019	12:02:40	38.4016	-108.8692	-4.4	5.9	0.9	11.9
10/4/2019	12:03:49	38.4016	-108.8690	-4.4	5.9	0.3	11.9
10/4/2019	14:09:08	38.2859	-108.8989	-1.9	3.5	-0.4	1.2
10/5/2019	4:32:48	38.4013	-108.8734	-4.2	5.7	0.1	11.8
10/5/2019	5:33:45	38.4012	-108.8735	-4.2	5.7	1.5	11.8
10/5/2019	5:36:24	38.3987	-108.8747	-3.5	5.0	-1.1	11.5
10/5/2019	5:36:54	38.4011	-108.8736	-4.2	5.7	1.8	11.8
10/5/2019	5:41:04	38.4012	-108.8742	-4.1	5.7	-0.2	11.8
10/5/2019	5:41:13	38.4011	-108.8730	-4.2	5.7	1.8	11.8
10/5/2019	5:42:35	38.4012	-108.8728	-4.2	5.7	-0.5	11.8
10/5/2019	5:43:27	38.4092	-108.8572	-3.4	4.9	-1.0	12.9
10/5/2019	5:44:40	38.4011	-108.8731	-4.2	5.7	1.0	11.8
10/5/2019	5:45:10	38.4048	-108.8645	-3.7	5.2	-1.0	12.3
10/5/2019	5:46:46	38.4012	-108.8722	-4.2	5.7	-0.4	11.8
10/5/2019	5:49:25	38.4012	-108.8726	-4.2	5.8	0.1	11.8
10/5/2019	5:53:24	38.4012	-108.8727	-4.2	5.8	1.0	11.8
10/5/2019	5:56:09	38.4012	-108.8724	-4.2	5.8	-0.3	11.8
10/5/2019	5:56:37	38.4067	-108.8652	-3.7	5.2	-0.8	12.5
10/5/2019	5:57:02	38.4013	-108.8722	-4.2	5.8	-0.4	11.8
10/5/2019	5:59:04	38.4012	-108.8721	-4.2	5.8	0.7	11.8
10/5/2019	6:00:42	38.4070	-108.8623	-3.7	5.2	-1.0	12.6
10/5/2019	6:03:51	38.4013	-108.8719	-4.2	5.7	-0.2	11.8
10/5/2019	6:03:58	38.4012	-108.8727	-4.2	5.7	-0.9	11.8
10/5/2019	6:04:05	38.4012	-108.8720	-4.2	5.7	-0.4	11.8
10/5/2019	6:06:01	38.4012	-108.8722	-4.2	5.7	-0.1	11.8
10/5/2019	6:16:08	38.4012	-108.8721	-4.2	5.7	0.0	11.8
10/5/2019	8:35:56	38.4032	-108.8673	-4.6	6.1	1.1	12.1
10/5/2019	8:37:37	38.4011	-108.8738	-4.1	5.7	0.0	11.8
10/5/2019	8:39:20	38.4012	-108.8740	-4.2	5.7	0.7	11.8
10/5/2019	8:39:42	38.4012	-108.8738	-4.1	5.7	-0.6	11.8
10/5/2019	8:42:59	38.4072	-108.8598	-3.4	4.9	-1.1	12.7
10/5/2019	8:43:20	38.4013	-108.8743	-4.2	5.7	0.3	11.8
10/5/2019	12:58:45	38.4013	-108.8709	-4.2	5.8	0.0	11.8
10/5/2019	13:00:36	38.4068	-108.8667	-3.9	5.4	-1.0	12.5
10/5/2019	13:01:47	38.4013	-108.8711	-4.2	5.8	-1.0	11.8
10/5/2019	13:02:03	38.4013	-108.8715	-4.2	5.7	-0.4	11.8
10/5/2019	13:02:32	38.4012	-108.8714	-4.2	5.7	-0.1	11.8
10/5/2019	13:35:35	38.4014	-108.8712	-4.3	5.8	0.1	11.8
10/5/2019	14:09:31	38.4012	-108.8719	-4.2	5.8	0.5	11.8
10/5/2019	14:10:07	38.4012	-108.8718	-4.2	5.7	0.4	11.8

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
10/5/2019	14:11:26	38.4012	-108.8715	-4.2	5.7	-0.5	11.8
10/5/2019	14:11:42	38.4013	-108.8719	-4.2	5.7	-0.5	11.8
10/5/2019	14:13:21	38.4012	-108.8714	-4.2	5.8	1.1	11.8
10/5/2019	14:28:07	38.4013	-108.8715	-4.2	5.8	-0.2	11.8
10/5/2019	15:10:44	38.4012	-108.8722	-4.2	5.7	0.1	11.8
10/5/2019	15:12:15	38.4012	-108.8721	-4.2	5.7	1.3	11.8
10/6/2019	0:15:27	38.4013	-108.8720	-4.2	5.7	1.3	11.8
10/6/2019	0:16:13	38.4012	-108.8723	-4.2	5.7	-0.2	11.8
10/6/2019	1:54:37	38.4014	-108.8708	-4.2	5.7	0.2	11.8
10/6/2019	3:09:31	38.4014	-108.8682	-4.4	5.9	0.4	11.9
10/6/2019	5:38:44	38.2823	-108.9058	-2.1	3.6	-0.1	1.8
10/6/2019	6:12:25	38.4015	-108.8679	-4.4	5.9	-0.1	11.9
10/6/2019	10:26:04	38.4025	-108.8707	-4.6	6.1	0.1	11.9
10/6/2019	10:26:34	38.4024	-108.8703	-4.6	6.1	-0.1	12.0
10/6/2019	10:27:30	38.4024	-108.8703	-4.6	6.1	-0.5	11.9
10/6/2019	10:28:21	38.4022	-108.8710	-4.6	6.1	0.1	11.9
10/6/2019	13:07:55	38.2856	-108.9006	-1.9	3.4	-0.5	1.3
10/6/2019	16:20:51	38.2828	-108.9052	-2.2	3.7	-0.7	1.8
10/6/2019	19:14:50	38.4013	-108.8745	-4.2	5.7	-0.2	11.8
10/6/2019	20:58:03	38.2820	-108.9100	-2.0	3.5	0.5	2.1
10/6/2019	21:30:14	38.2820	-108.9099	-2.0	3.5	0.2	2.1
10/6/2019	21:40:28	38.4016	-108.8705	-4.5	6.0	-0.1	11.9
10/6/2019	21:40:39	38.4013	-108.8708	-4.2	5.8	-0.3	11.8
10/6/2019	21:41:42	38.4014	-108.8704	-4.2	5.8	-0.7	11.8
10/7/2019	0:58:47	38.4015	-108.8677	-4.4	6.0	0.0	11.9
10/7/2019	1:00:40	38.3977	-108.8795	-3.5	5.0	-1.5	11.3
10/7/2019	2:45:38	38.2779	-108.9214	-1.4	2.9	-0.3	3.1
10/7/2019	21:12:26	38.4013	-108.8693	-4.3	5.8	-0.4	11.8
10/7/2019	21:13:07	38.4015	-108.8691	-4.3	5.8	-0.7	11.9
10/7/2019	21:41:13	38.4015	-108.8691	-4.3	5.9	-0.2	11.9
10/7/2019	22:25:14	38.2836	-108.9047	-1.9	3.4	-1.0	1.7
10/7/2019	23:30:30	38.4013	-108.8700	-4.3	5.8	-0.2	11.8
10/7/2019	23:57:48	38.2830	-108.9097	-2.2	3.7	-0.8	2.0
10/8/2019	0:26:32	38.4014	-108.8707	-4.3	5.8	-0.3	11.8
10/8/2019	18:21:02	38.4015	-108.8744	-4.4	5.9	0.3	11.8
10/9/2019	4:18:22	38.2858	-108.8998	-2.0	3.5	-0.3	1.3
10/10/2019	21:00:41	38.2811	-108.9065	-1.9	3.4	-0.6	2.0
10/11/2019	14:23:12	38.3935	-108.8972	-4.6	6.2	0.2	10.8
10/11/2019	14:26:08	38.2845	-108.9022	-2.3	3.9	0.7	1.5
10/11/2019	14:28:26	38.4042	-108.8588	-4.0	5.5	-0.5	12.4
10/11/2019	15:24:28	38.3927	-108.8965	-4.6	6.1	0.0	10.7

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
10/11/2019	15:26:12	38.4038	-108.8920	-4.6	6.1	-0.4	11.9
10/12/2019	5:03:26	38.4037	-108.8708	-4.5	6.0	0.3	12.1
10/12/2019	21:45:24	38.4041	-108.8701	-4.5	6.0	0.4	12.1
10/13/2019	11:15:06	38.4041	-108.8701	-4.5	6.0	0.3	12.1
10/15/2019	7:07:27	38.2734	-108.9276	-0.3	1.8	0.2	3.8
10/15/2019	7:07:57	38.2735	-108.9274	-0.3	1.8	-0.4	3.8
10/15/2019	7:08:22	38.2735	-108.9275	-0.3	1.8	-0.1	3.8
10/16/2019	2:29:38	38.2822	-108.9047	-2.0	3.5	-0.3	1.8
10/16/2019	7:01:17	38.2822	-108.9047	-2.0	3.6	0.0	1.8
10/16/2019	11:07:06	38.4039	-108.8709	-4.4	5.9	0.3	12.1
10/17/2019	15:44:24	38.2854	-108.9001	-2.2	3.7	-0.1	1.3
10/17/2019	19:47:22	38.2786	-108.9043	-2.9	4.4	-0.7	2.2
10/17/2019	23:18:03	38.4014	-108.8692	-4.4	5.9	-0.2	11.9
10/18/2019	15:28:37	38.2859	-108.8991	-2.1	3.6	0.5	1.2
10/18/2019	18:22:19	38.2858	-108.8996	-2.0	3.5	-0.8	1.3
10/18/2019	23:51:07	38.4058	-108.8603	-3.9	5.4	-0.7	12.5
10/18/2019	23:51:09	38.4014	-108.8671	-4.5	6.0	-0.1	11.9
10/19/2019	14:32:23	38.2815	-108.9100	-1.9	3.4	-0.4	2.1
10/19/2019	18:36:33	38.2821	-108.9084	-1.9	3.5	-0.4	2.0
10/20/2019	4:18:25	38.2821	-108.9083	-1.9	3.5	-0.3	2.0
10/20/2019	12:12:03	38.2822	-108.9082	-1.9	3.5	-0.2	2.0
10/21/2019	6:09:02	38.2860	-108.8986	-2.0	3.5	-0.2	1.2
10/23/2019	4:37:25	38.2841	-108.9036	-1.9	3.4	-0.4	1.6
10/23/2019	4:43:39	38.3977	-108.8702	-3.1	4.6	0.0	11.4
10/23/2019	15:26:58	38.2850	-108.9014	-2.4	3.9	-0.6	1.4
10/23/2019	20:19:04	38.4015	-108.8751	-4.4	6.0	-0.2	11.8
10/24/2019	18:01:10	38.2809	-108.9115	-1.9	3.4	-0.4	2.3
10/26/2019	2:41:19	38.2791	-108.8983	-3.2	4.7	0.8	2.0
10/26/2019	3:16:54	38.2834	-108.9060	-1.9	3.4	1.6	1.8
10/26/2019	21:45:51	38.2838	-108.9042	-1.9	3.5	0.0	1.6
10/28/2019	0:02:12	38.2858	-108.8990	-2.3	3.8	0.0	1.2
10/28/2019	17:40:32	38.4012	-108.9261	-4.6	6.1	0.0	11.9
10/29/2019	8:01:35	38.2802	-108.9079	-2.1	3.6	-0.4	2.1
10/30/2019	18:46:29	38.2805	-108.9067	-2.3	3.8	0.6	2.0
11/1/2019	4:37:53	38.2843	-108.9028	-2.0	3.5	0.2	1.5
11/1/2019	6:46:23	38.2824	-108.9066	-2.0	3.6	-0.2	1.9
11/1/2019	7:49:45	38.4015	-108.8705	-4.3	5.9	0.2	11.8
11/1/2019	7:59:49	38.4016	-108.8703	-4.4	5.9	0.1	11.9
11/1/2019	14:40:41	38.2861	-108.9004	-1.8	3.3	-0.5	1.3
11/1/2019	15:59:26	38.2858	-108.9000	-2.0	3.5	0.2	1.3
11/2/2019	1:04:10	38.2782	-108.8977	0.2	1.3	-0.5	2.1
11/2/2019	18:43:25	38.2818	-108.9020	-2.6	4.1	0.4	1.7

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
11/3/2019	2:23:29	38.2825	-108.9053	-2.1	3.6	0.0	1.8
11/3/2019	10:12:29	38.2803	-108.9073	-2.2	3.8	0.2	2.1
11/5/2019	11:13:34	38.2848	-108.9022	-2.0	3.5	0.1	1.5
11/9/2019	21:02:43	38.2828	-108.9052	-2.3	3.9	-0.1	1.8
11/10/2019	23:16:45	38.4036	-108.8717	-4.4	5.9	0.0	12.1
11/11/2019	15:10:37	38.2773	-108.9145	-2.7	4.2	2.2	2.7
11/14/2019	21:40:23	38.3312	-108.7465	-3.7	5.2	0.3	13.5
11/15/2019	7:30:03	38.2812	-108.9112	-1.8	3.3	-0.2	2.2
11/15/2019	7:46:59	38.4015	-108.8696	-4.4	5.9	0.5	11.9
11/16/2019	10:45:59	38.2826	-108.9060	-2.0	3.5	0.2	1.8
11/17/2019	4:52:18	38.3313	-108.7466	-3.7	5.2	0.2	13.5
11/17/2019	19:12:31	38.2861	-108.8975	-2.3	3.8	-0.5	1.2
11/17/2019	20:03:45	38.3312	-108.7465	-3.7	5.2	0.5	13.5
11/17/2019	23:35:42	38.2830	-108.9058	-2.3	3.8	0.2	1.8
11/18/2019	8:50:15	38.2857	-108.8997	-1.9	3.4	-0.6	1.3
11/18/2019	11:23:56	38.2859	-108.8989	-2.0	3.6	-0.2	1.2
11/18/2019	11:28:07	38.2859	-108.8988	-2.0	3.6	-0.4	1.2
11/18/2019	13:32:39	38.2860	-108.8986	-2.0	3.5	-0.3	1.2
11/18/2019	14:51:52	38.2826	-108.9057	-2.3	3.8	-0.1	1.8
11/19/2019	1:24:06	38.2824	-108.9062	-1.9	3.4	-0.5	1.9
11/19/2019	9:47:19	38.2823	-108.9071	-2.2	3.8	-1.5	1.9
11/19/2019	9:47:21	38.2825	-108.9063	-2.2	3.7	-0.1	1.9
11/20/2019	0:42:53	38.2828	-108.9059	-2.0	3.5	0.0	1.8
11/21/2019	8:56:35	38.4013	-108.8713	-4.2	5.7	0.2	11.8
11/23/2019	1:37:57	38.4016	-108.8698	-4.4	5.9	0.4	11.9
11/23/2019	5:39:30	38.3310	-108.7465	-3.7	5.2	0.4	13.5
11/23/2019	10:21:28	38.2825	-108.9058	-2.0	3.5	-0.6	1.8
11/25/2019	23:14:33	38.2778	-108.9209	-1.4	2.9	-0.7	3.1
11/26/2019	5:58:05	38.2861	-108.8970	-1.9	3.5	-0.1	1.2
11/27/2019	10:32:46	38.2851	-108.9021	-2.0	3.5	-0.3	1.4
11/27/2019	19:32:41	38.2827	-108.9056	-2.1	3.6	0.2	1.8
11/28/2019	14:24:36	38.2840	-108.9037	-2.0	3.5	-0.4	1.6
11/30/2019	12:07:06	38.2830	-108.9049	-2.3	3.8	-0.4	1.7
11/30/2019	14:07:46	38.2838	-108.9038	-1.9	3.4	0.0	1.6
12/1/2019	3:28:54	38.2859	-108.8988	-2.0	3.6	0.3	1.2
12/1/2019	8:44:42	38.2836	-108.9039	-2.0	3.5	-0.2	1.6
12/2/2019	13:28:48	38.2830	-108.9054	-2.0	3.5	0.9	1.8
12/2/2019	13:46:22	38.2831	-108.9054	-2.0	3.5	-0.2	1.7
12/2/2019	13:46:46	38.2829	-108.9065	-2.0	3.5	-0.7	1.8
12/2/2019	13:46:54	38.2831	-108.9068	-2.0	3.5	-1.5	1.8
12/2/2019	14:17:28	38.2830	-108.9055	-2.0	3.5	0.7	1.8

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Date ¹	Time ¹	Latitude (deg.)	Longitude (deg.)	Elevation ² (km)	Depth ³ (km)	Magnitude ⁴	Horizontal Distance from Injection Well (km)
12/2/2019	14:55:09	38.2829	-108.9057	-2.0	3.5	1.0	1.8
12/3/2019	4:12:20	38.2827	-108.9067	-2.0	3.6	0.0	1.8
12/3/2019	4:12:53	38.2827	-108.9068	-2.0	3.5	-0.3	1.9
12/3/2019	10:27:37	38.3044	-108.9341	-3.6	5.1	-0.2	3.5
12/4/2019	0:10:15	38.2835	-108.9050	-1.9	3.5	0.1	1.7
12/4/2019	12:31:56	38.4038	-108.8704	-4.5	6.0	0.5	12.1
12/4/2019	23:07:37	38.2836	-108.9031	-2.2	3.7	0.7	1.6
12/5/2019	1:46:06	38.2002	-108.7249	-4.0	5.5	0.9	18.3
12/5/2019	18:50:23	38.2838	-108.9038	-1.9	3.4	-0.3	1.6
12/6/2019	7:14:57	38.2840	-108.9037	-1.9	3.5	-0.1	1.6
12/6/2019	8:37:29	38.3097	-108.8892	-2.9	4.4	0.0	1.5
12/7/2019	15:21:27	38.3128	-108.9768	-1.9	3.4	0.6	7.4
12/7/2019	18:32:14	38.2826	-108.9052	-2.1	3.6	0.5	1.8
12/9/2019	8:06:00	38.2848	-108.9016	-2.2	3.7	0.2	1.4
12/9/2019	19:10:27	38.2805	-108.9077	-2.2	3.8	0.3	2.1
12/12/2019	2:30:56	38.2826	-108.9059	-2.0	3.5	0.2	1.8
12/13/2019	12:03:39	38.2774	-108.8307	-2.3	3.8	-0.1	6.0
12/13/2019	12:05:03	38.2774	-108.8305	-2.3	3.9	-0.4	6.0
12/14/2019	20:59:14	38.2808	-108.9091	-2.2	3.7	0.8	2.1
12/15/2019	2:25:28	38.2774	-108.8307	-2.3	3.9	0.0	6.0
12/16/2019	5:26:09	38.2840	-108.9040	-1.9	3.4	-0.7	1.6
12/17/2019	21:42:58	38.2580	-108.8672	0.5	1.0	0.2	4.9
12/18/2019	15:18:29	38.2834	-108.9057	-1.9	3.5	-0.4	1.7
12/18/2019	22:33:23	38.2821	-108.9092	-2.0	3.5	1.5	2.0
12/19/2019	7:45:21	38.2837	-108.7243	-7.4	8.9	0.8	15.0
12/19/2019	17:17:06	38.2839	-108.9038	-1.9	3.4	-0.5	1.6
12/20/2019	17:04:21	38.2820	-108.9094	-1.9	3.5	-0.4	2.1
12/20/2019	19:16:43	38.4280	-108.9479	-6.2	7.7	0.2	15.3
12/21/2019	8:02:21	38.2835	-108.8926	-2.7	4.2	1.2	1.5
12/21/2019	8:29:27	38.2835	-108.8927	-2.6	4.2	-0.1	1.5
12/21/2019	19:17:18	38.2827	-108.9069	-2.0	3.5	-0.2	1.9
12/21/2019	20:00:21	38.2828	-108.9071	-2.0	3.5	-0.6	1.9
12/22/2019	7:18:41	38.4037	-108.8693	-4.4	6.0	0.9	12.1
12/22/2019	7:19:13	38.4065	-108.8670	-4.3	5.8	-1.0	12.4
12/22/2019	7:19:41	38.4039	-108.8686	-4.4	6.0	-0.7	12.1
12/22/2019	7:19:48	38.4037	-108.8696	-4.4	6.0	0.9	12.1
12/22/2019	7:20:39	38.4063	-108.8635	-3.9	5.4	-0.8	12.5
12/22/2019	8:01:03	38.2820	-108.9085	-1.9	3.5	-0.2	2.0
12/24/2019	2:16:29	38.2821	-108.9085	-1.9	3.4	-0.7	2.0
12/25/2019	10:44:45	38.2823	-108.9062	-2.2	3.7	-0.2	1.9
12/26/2019	15:47:37	38.2860	-108.8982	-2.0	3.5	-0.7	1.2
12/27/2019	21:00:23	38.2763	-108.8749	-1.1	2.6	-0.4	2.9

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Date¹	Time¹	Latitude (deg.)	Longitude (deg.)	Elevation² (km)	Depth³ (km)	Magnitude⁴	Horizontal Distance from Injection Well (km)
12/29/2019	5:53:07	38.2762	-108.8747	-1.1	2.6	0.3	2.9
12/29/2019	17:18:39	38.2743	-108.9007	-2.5	4.0	-0.4	2.5
12/30/2019	9:30:17	38.2816	-108.9108	-1.9	3.4	-0.6	2.2
12/31/2019	0:06:31	38.2817	-108.9046	-2.1	3.6	0.6	1.8

¹ Date and time listed are in Coordinated Universal Time, UTC (Mountain Standard Time = UTC – 7 hours; Mountain Daylight Savings Time = UTC – 6 hours)

² Elevation is given with respect to mean sea level.

³ Depth is referenced to the surveyed ground surface elevation at the injection wellhead, 1.524 km.

⁴ Magnitudes listed are duration magnitudes, unless specified otherwise

⁵ Moment magnitude as reported by the University of Utah and U.S. Geological Survey
(<https://earthquake.usgs.gov/earthquakes/eventpage/uu60315157/executive>)