

# The Arnold Sentinel

“Serving the South Loup River Valley”

THURSDAY, APRIL 19, 2018

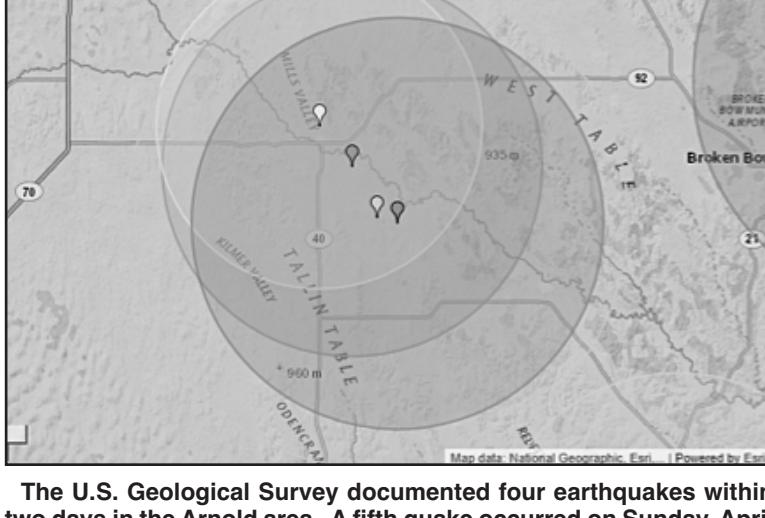
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## Arnold Area Residents Feel Effects of Four Earthquakes Last Week



The U.S. Geological Survey documented four earthquakes within two days in the Arnold area. A fifth quake occurred on Sunday, April 15. This was a first-time experience for many of the residents.

By Pepper Werner

After the reading of this story, there may be more questions than answers, so consider this food for thought...

An earthquake is the vibration—sometimes violent—of the Earth's surface that follows a release of energy in the Earth's crust. This energy can be generated by a sudden dislocation of segments of the crust, by a volcanic eruption, or even by manmade explosions. Most destructive quakes, however, are caused by dislocations of the crust. The crust may first bend and then, when the stress exceeds the strength of the rocks, break and "snap" to a new position. In the process of breaking, vibrations called "seismic waves" are generated. These waves travel outward from the source of the earthquake along the surface and through the Earth at varying speeds depending on the material through which they move. Some of the vibrations are of high enough frequency to be audible, while others are of very low frequency. These vibrations cause the entire planet to quiver or ring like a bell or tuning fork. The Arnold area has experienced at least five of these dislocations over the past week.

A fault is a fracture in the Earth's crust along which two

blocks of the crust have slipped with respect to each other. Faults are divided into three main groups, depending on how they move. Normal faults occur in response to pulling or tension; the overlying block moves down the dip of the fault plane. Thrust (reverse) faults occur in response to squeezing or compression; the overlying block moves up the dip of the fault plane. Strike-slip (lateral) faults occur in response to either type of stress; the blocks move horizontally past one another. Most faulting along spreading zones is normal, along subduction zones is thrust, and along transform faults is strike-slip. There are two documented faults within Nebraska—Humboldt and Union. The Ord escarpment and Harlan County fault have also recorded earthquake activity.

Geologists have found that earthquakes tend to reoccur along faults, which reflect zones of weakness in the Earth's crust. Even if a fault zone has recently experienced an earthquake, however, there is no guarantee that all the stress has been relieved. Another earthquake could still occur. Meaning, that Arnold may not be finished yet.

The focal depth of an earthquake is the depth from the

Earth's surface to the region where an earthquake's energy originates (the focus). Earthquakes with focal depths from the surface to about 43.5 miles are classified as shallow. Earthquakes with focal depths from 43.5 to 186 miles are classified as intermediate. The focus of deep earthquakes may reach depths of more than 435 miles. The focuses of most earthquakes are concentrated in the crust and upper mantle. The depth to the center of the Earth's core is about 3,960 miles, so even the deepest earthquakes originate in relatively shallow parts of the Earth's interior.

The epicenter of an earthquake is the point on the Earth's surface directly above the focus. The location of an earthquake is commonly described by the geographic position of its epicenter and by its focal depth. The M3.7 earthquake last week had an epicenter southeast of Arnold between Yucca Valley and Rye Valley with a focal depth just over three miles deep.

Sometimes an earthquake has foreshocks. These are smaller earthquakes that happen in the same place as the larger earthquake that follows. Scientists can't tell that an earthquake is a foreshock until the larger earthquake happens. The largest, main earthquake is called the mainshock. Mainshocks always have aftershocks that follow. These are smaller earthquakes that occur afterwards in the same place as the mainshock. Depending on the size of the mainshock, aftershocks can continue for weeks, months, and even years after the mainshock. It is believed that Arnold may have experienced two aftershocks following the earthquake on April 10.

What causes earthquakes and where do they happen? The earth has four major layers: the inner core, outer core, mantle and crust. The crust and the top of the mantle make up a thin skin on the surface of our planet. But this skin is not all in one piece—it is made up of many pieces like a puzzle covering the surface of the earth. Not only that, but these puzzle pieces keep slowly moving around, sliding past one another and bumping into each other. We call these puzzle pieces tectonic plates, and the

Continued on page 2.

## Three Events Planned for Sat., April 28

Arnold will be a busy town on Saturday, April 28, as three separate events are being planned.

### Sandhills Motors Grand Opening

Sandhills Motors will be holding a grand opening in their newly-renovated showroom on Main Street from 9:00 a.m. to 5:00 p.m. Lunch will be served from 11:30 a.m. to 1:00 p.m. From now, until 1:00 p.m., on the day of the grand opening, everyone is invited to register for a chance to win a 2019 RAM Laramie Crew Cab 4x4.

Complete details on how to register and get the chance to roll the dice to win can be found in an advertisement on page 6.

### City Park Improvement Fundraiser - "Good Ole' Fashioned Fun

The Arnold Economic Development Corporation will be hosting a fundraiser at the city park starting at 6:00 p.m., with a potluck supper. Residents are asked to bring plates and cutlery with a dish of their choice. Marshmallow roasting and out-

door games will follow. At dusk, the movie "Coco" will be shown on the projector at the park. Bring your lawn chairs and blankets for the showing.

The event is being planned as the AEDC begins phase 2 of updating and replacing some of the worn out equipment at the park and adding some more age appropriate equipment. If you are not able to attend, but still want to donate, donations can be dropped off at the AEDC or mailed to PO Box 376.

### Mills Hardware Milwaukee Tool Event

Mills Hardware will be hosting a Milwaukee Tool Event from 8:00 a.m. to 6:00 p.m., with exclusive deals to Mills Hardware on April 28 only.

Store manager Andrew Tickle said there will be a lot of great deals. Mills Hardware events draw customers not only from Arnold, but several surrounding communities. More details about the event can be found in an advertisement inside this issue.

## Blizzard Conditions Cause Vehicle Collision, Power Outages

A spring blizzard moved into the area on Friday afternoon, packing ice, snow and high winds. By Saturday morning, several inches of snow had fallen, causing drifting of roads. The storm forced several cancellations and postponements, including Arnold and Callaway's prom to Sunday evening.

The high winds and icy road conditions caused a two-vehicle head-on collision late Friday afternoon, just inside the Logan County line on mile-marker 246 on Highway 92.

Logan County Sheriff's Deputy Dalen Wood, who investigated the accident, said a westbound green SUV, driven by Austin Starr, crossed the center line and collided with an eastbound white Dodge Journey SUV driven by Frank Hauser.

Hauser and his passenger, wife, Sue; and Starr were all taken to the Callaway Hospital by Arnold rescue on very dan-

gerous roads. Frank Hauser and Starr were treated and released, and Sue Hauser was released on Saturday.

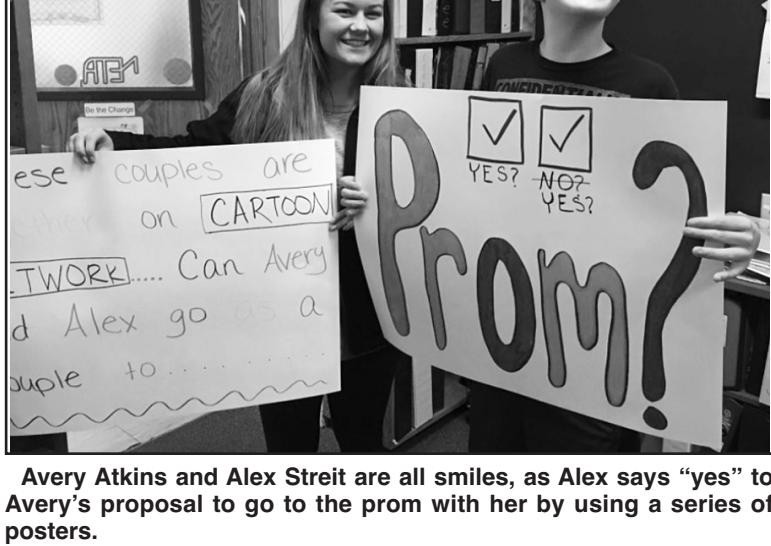
The vehicles, which were both a total loss, were left at the scene due to tow trucks not being able to get to the scene.

The town of Arnold was without power late Friday afternoon, as Custer Public Power workers scrambled to repair transmission problems. East, southeast of Arnold, several power poles snapped. Isolated power outages were also reported in other rural areas, with many residents without power through Sunday.

Village Utilities Superintendent Doug De Laune said there was minimal damage within the city limits. One pole snapped and some poles were splintered and will need to be repaired.

## Alex Says “Yes to the Dress”

### Arnold senior asks freshman boy to prom in unique way



Avery Atkins and Alex Streit are all smiles, as Alex says "yes" to Avery's proposal to go to the prom with her by using a series of posters.

By Janet Larreau

Last weekend, Arnold senior Avery Atkins gave Arnold freshman Alex Streit a gift that cannot be bought or wrapped. With Avery dressed in red and gold, and Alex wearing a black suit with gold accent colors, Avery picked up Alex in her brother's jeep and they headed for Callaway, where Arnold and Callaway students were gathering for their combined prom.

The couple walked arm-in-arm in the grand march, enjoyed the catered meal, the dance that followed and had a blast at the After Prom Party.

The resulting gift was a memory Alex will cherish forever.

"I made it as special as I could. It's my last prom, and it might be the only time he gets to experience this," said Avery.

What led Avery to asking a mere freshman to the prom is a

heartwarming story with a happy ending.

"I pretty much followed Alex around and helped him out most of the year. I discovered how awesome of a kid he was, and I wanted him to have any experience any other kid in high school would have," said Avery.

Alex, who has Autism, loves the Cartoon Network, so Avery, with help from her mom, Randi, Mrs. Badgley and Mrs. Brown, came up with a creative plan on how to ask Alex. Avery created a poster with some of the couples that are known to be together on the Network, like Popeye and Olive Oil and Tom and Jerry. On another poster, she wrote the words "Would Avery and Alex go as a couple to prom? And on a third poster she wrote "Prom." The next step was unveiling the posters to Alex, one by one.

"Mrs. Badgley, Mrs. Brown and my mom all played a role into when and how to do it and make it special for him. That was really nice of them," said Avery. "I did it in front of his class, so he wouldn't be uncomfortable. Nobody knew that I was going to do it, and when (the class) saw, they all started videoing it. They were pretty excited that Alex gets to experience prom just like everybody else, and that's pretty cool."

Alex, as you might guess, was very excited and said "yes." When Avery explained that they were going to go to prom, and it would be like a date, Alex asked Avery what color her



Dressed in a red and gold gown, Avery pins on Alex's boutonniere on the "big day" before they head to the prom in her brother's jeep.

dress was.

"Red," she said.

He responded with, "Oh, that will look so YOU on you."

In the days leading up to prom, Alex told Avery every day, "Are you ready to see my

cool dance moves?"

And how cool were Alex's dance moves? Ask anyone there, and they will probably tell you they were pretty awesome, and he's a pretty awesome kid.