

Oklahoma Geological Survey  
 Dr. Jeremy Boak, Director

## Fairview Earthquake Sequence Fact Sheet

### Main Shock

**Date/Time:** 01/06/2015 10:27:58pm (CST)

**Magnitude:** 4.6 Mw

**Location:** 10.2 miles SE of Waynoka, Oklahoma

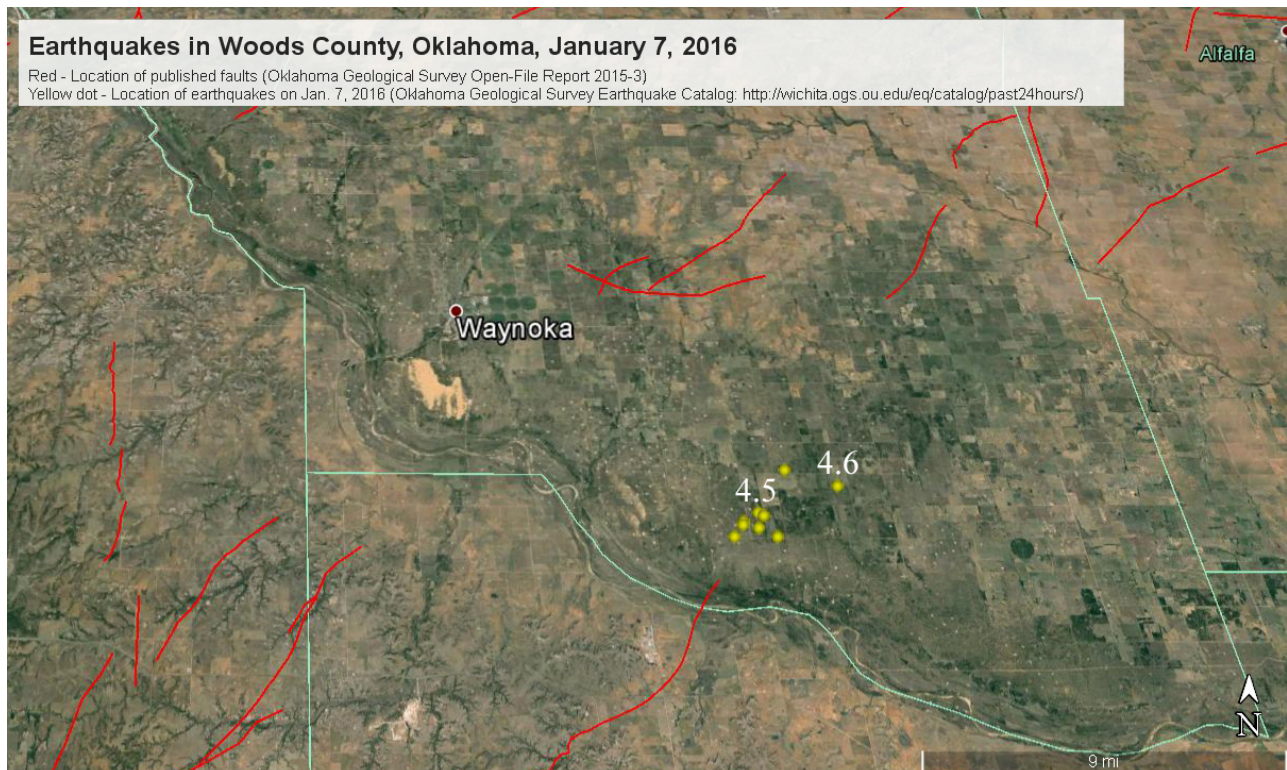
**Depth:** 4.4 miles

**Number of Felt Reports:** 152

**Reported Damage:** 0

### Potentially Related Events (Foreshocks and Aftershocks)

Origin Time	Latitude	Longitude	Depth (mi)	County	Magnitude
10:27:28 PM	36.48602	-98.7412	4.41	WOODS	4.5MW
10:49:47 PM	36.47935	-98.74235	5.15	WOODS	3.6ML
11:19:47 PM	36.48466	-98.73881	4.03	WOODS	3.5ML
2:06:15 AM	36.47549	-98.75494	5.40	WOODS	3.4ML
2:37:11 AM	36.47536	-98.73424	4.13	WOODS	3.8MW
4:48:42 AM	36.48064	-98.74972	4.85	WOODS	3.5MW
5:13:18 AM	36.50515	-98.724	4.58	WOODS	2.9ML
7:40:59 AM	36.48194	-98.74912	6.11	WOODS	3.7ML



## Magnitude Reporting

The USGS has reported different magnitude estimations and locations from the Oklahoma Geological Survey. To avoid confusion when referring to significant earthquakes, it is by protocol that the OGS records the USGS magnitude in their catalog as the preferred magnitude. When referring to OGS reported earthquakes, it is important to note that the OGS's estimations may vary and are derived from more stations within the state. All calculations are estimates and have uncertainty in their final values.

## Aftershock Advisory

The magnitude 4.6 earthquake that occurred in Woods County is likely to trigger aftershocks, and has potentially already done so. Aftershocks are earthquakes that occur following a large earthquake, in the same general area as the earthquake, ranging from days to even a few years. The likelihood of an aftershock being larger than this earthquake is about 5%. Aftershocks have the potential to create damage, just like other earthquakes and are a normal occurrence after large earthquakes. They may be expected to continue and become less frequent with time. If you have observed damage to your residence or workplace, please note that further damage from aftershocks is possible.

In the event of another earthquake or aftershocks, use the following protective protocol:



- Drop to the ground
- Cover your head and neck
- Hold on

## Oklahoma Earthquakes

Nearly every county in Oklahoma has had an earthquake located within its boundaries. Earthquakes within the central United States can be felt by a significant percentage of the population over a widespread area, with the felt area being more than ten times larger than a similar earthquake on the West Coast. Moreover, damage may occur at greater distances from the epicenter. We encourage residents to report experiences to the United States Geological Survey (USGS) Did You Feel It? website:

<http://earthquake.usgs.gov/earthquakes/dyfi/>

## Future Updates



**OGS website:** <http://www.ogs.ou.edu>



**Twitter:** [@OKearthquakes](https://twitter.com/OKearthquakes)



**Facebook:** [Oklahoma Geological Survey – Earthquake Notices](https://www.facebook.com/OKearthquakes)